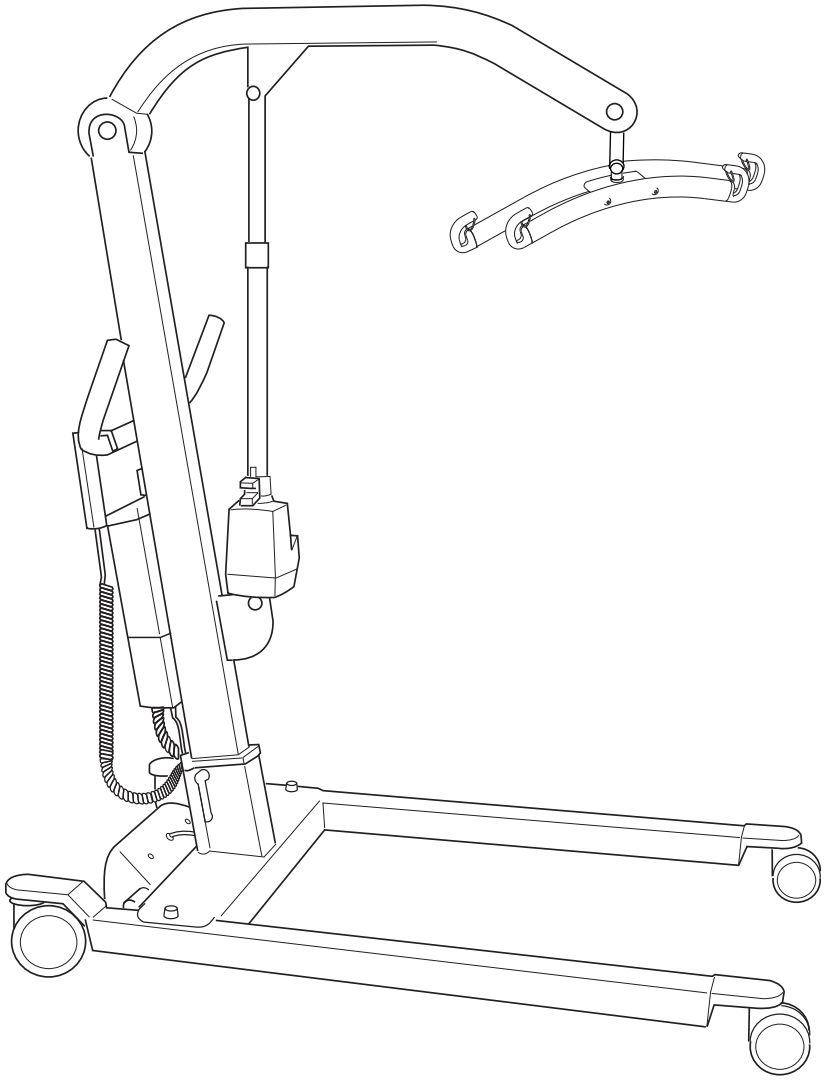
8:2

Service Manual

Viking XL

Doc.No. 3SE350401-01

2006-03-30



Serial No: 800987
Version:V4

Liko

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Care and maintenance

For safe and trouble-free operation, a few routine procedures should be performed every day the lift is used.

- Visually inspect the patient lift and check for external damage or wear.
- Check that all screws and lock nuts on the slingbar are tight.
- Check that the safety latches on the slingbar work properly.
- Check the handcontrol and the lift and width movements.
- Check the emergency lowering function (both electrical and mechanical).
- Charge the battery every day the lift is used, and check charger function.

If needed, clean the lift with warm water or ethanol. **Warning! Do not use chemicals containing phenol or chlorine, since this may damage the aluminium materials.**

Transportation and storage

During transportation, or when the patient lift is not to be used for some time, the emergency stop button should be pushed in. Store the lift at a temperature exceeding freezing point and at normal relative humidity (no more than 60%).

Inspection

The lift must be thoroughly inspected at least once per year. Pay particular attention to parts that show wear, for example, joints, bolts, etc. Service must be carried out according to Liko service manual and by authorized staff.

> △ ***IMPORTANT!***
> Repairs and maintenance may only be carried out by authorized Liko service personnel using original Liko spare parts.

Service agreements

Liko invites you to sign a service agreement for regular maintenance and testing of your Liko mobile lift.

We always try to improve our products. Naturally, this means changes from time to time.
Please contact our local representative or your nearest Liko office to receive the latest updates.

Recycling

For instructions on how the lift shall be recycled, visit our website www.liko.com.

Made in Sweden

Liko is quality certified according to ISO 9001 and environment certified according to ISO 14001.

Tillsyn och underhåll

För problemfri användning bör vissa detaljer kontrolleras varje dag lyften används:

- Inspektera lyften och kontrollera att inga yttre skador har uppkommit
- Kontrollera infästningen av lyftbygeln
- Kontrollera urkrokningsskyddens funktion
- Kontrollera manövreringen av lyftrörelsen och breddinställningen
- Kontrollera att nödsänkningen (både den elektriska och den mekaniska) fungerar
- Ladda batterierna varje dag lyften använts och kontrollera då att laddaren fungerar

Vid behov, rengör lyften med varmt vatten eller tvättsprit och se till att hjulen är fria från smuts och hår.
OBS! Använd inte rengöringsmedel som innehåller fenol eller klor, då detta kan skada aluminium och polyamidmaterialen.

Transport och lagring
Under transport, eller då lyften inte ska användas under en längre tid, bör nödstoppen vara intryckt.
Lyften bör förvaras frostfritt samt ej över normal luftfuktighet (ca 60%).

Tillsyn och kontroll
Viking skall genomgå kontroll av förslitningsdetaljer minst en gång per år.
Utföres i enlighet med Likos servicemanual och av auktoriserad personal.

△VIKTIGT!
Reparation och underhåll får endast uföras av Liko auktoriserad personal och med originalreservdelar.

Serviceavtal
Liko erbjuder möjlighet att teckna serviceavtal för underhåll och återkommande provning av er Viking mobillyft.

Likos produkter utvecklas ständigt varför vi förbehåller oss rätten till ändringar i produkter utan föregående notis. Kontakta din Likorepresentant för information, råd och eventuella uppdateringar.

Återvinning
För instruktioner om hur lyften skall återvinnas hänvisar vi till vår webbplats www.liko.se.

Made in Sweden

Liko är kvalitetscertifierat enligt ISO 9001 och miljöcertifierat enligt ISO 14001.

Technical data

Lifting speed: 3,5 cm/s (1.4 inch./s) without load

Batteries: Two 12V 2.9 Ah valve-regulated lead-acid gel-type batteries. New batteries are provided by the supplier.

Battery charger: Built-in charger, 100-240V, 50-60 Hz, max 400mA

Motor (mast): 24V, 6A, permanent magnetic motor with mechanical safety mechanism and safety nut.

Motor (base): 24V, 3.5A, permanent magnetic motor.

Material: Aluminium

Emergency lowering: Mechanical and electrical

Wheels: Standard front: 100 mm dual.
Alt. front: 75 mm dual.
Standard rear: 125 mm dual with brake.
Alt. rear: 100 mm single wheel w. brake

Intermittent operation: Int. Op 10/90, active operation max 2 min. Out of a time of 100, active must be less than 10, though not more than 2 min.

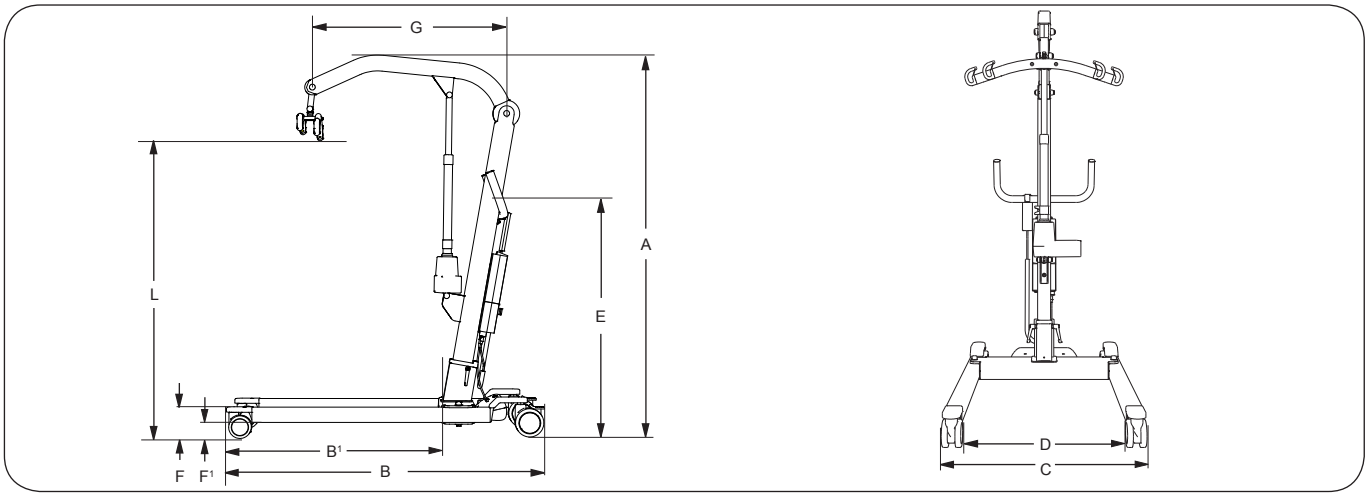
Degree of protection: IP 43

Built for indoor operation.

Type B according to the degree of protection against electric chock.

Class II equipment.

Measurements



Viking XL	Max. load	L* Max.	L* Min.	A* Max.	A* Min.	B	B1	C	D	E*	F**	F1	G	Weight Total	Weight Part	Turning diameter
A:	300	187	66	211	161	142	96	77-116	64-104	104-114	14/11,5	4,5	90	42	23	151
		182	61	206	156											
		177	56	201	151											
B:	660	74	26	83	63	56	38	30-46	25-41	41-45	5.5/4.5	1.8	35	93	51	60
		72	24	81	61											
		70	22	79	59											

A: Max. load and Weight in kg. Measures in cm.
B: Max. load and Weight in lbs. Measures in inches.
** These measures depend on which hole the mast is levelled an secured. See assembly instructions page 5.*
*** 14 cm (5.5 inch.) is standard. 11,5 cm (4.5 inch.) is with 75 mm front wheel.*

Tekniska data

Lyfthastighet: 3,5 cm/s utan belastning

Batterier: 2 st 12V 2,9 Ah ventilreglerade slutna blyack. s.k. gelbatterier. Nya batterier tillhandahålles av leverantören.

Batteriladdare: Inbyggd laddare, 100-240V, 50-60 Hz, max 400mA

Motor lyftpelare: 24V, 6A, permanent magnetmotor med mekanisk säkerhetsmekanism som dragsäkring och säkerhetsmutter

Motor underrede: 24V, 3,5A, permanent magnetmotor

Material: Aluminium

Nödsänkning: Mekanisk och elektrisk

Hjul: Standard fram: 100 mm tvillinghjul. Alt. fram: 75 mm tvillinghjul. Standard bak: 125 mm bromsade tvillinghjul. Alt. bak: 100 mm bromsat enkelhjul.

Intermittent drift: Int. Op 10/90, aktiv drift max 2 min. Av en tid på 100 får aktiv tid vara 10, dock max 2 min.

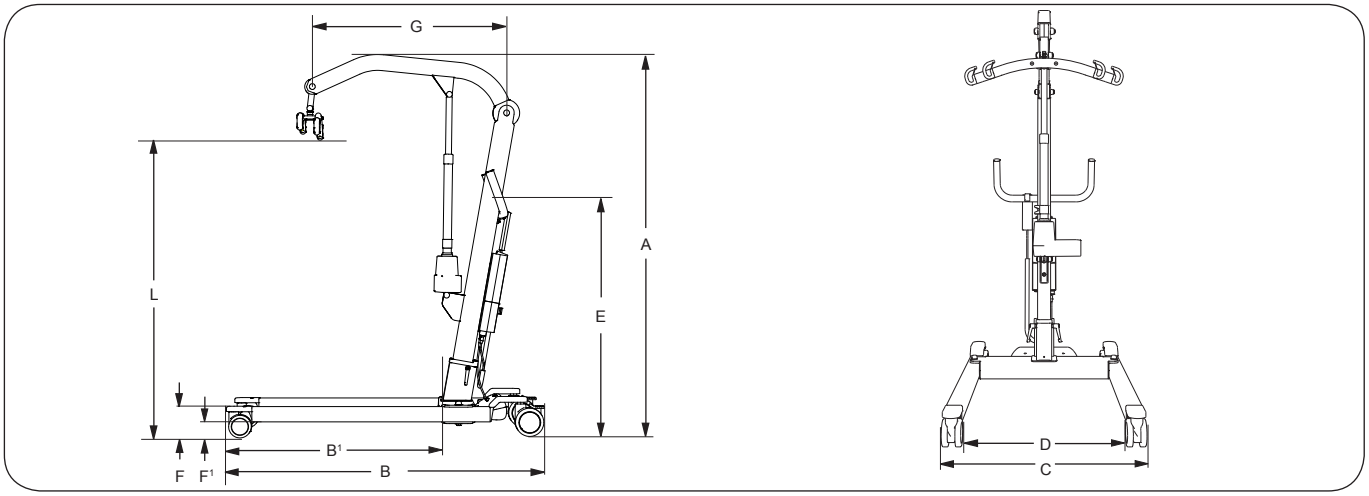
Skyddsklass: IP 43

Apparaten är avsedd för inomhusbruk.

Typ B, enligt skyddsgrad mot elektrisk chock.

Klass II utrustning.

Måttabell



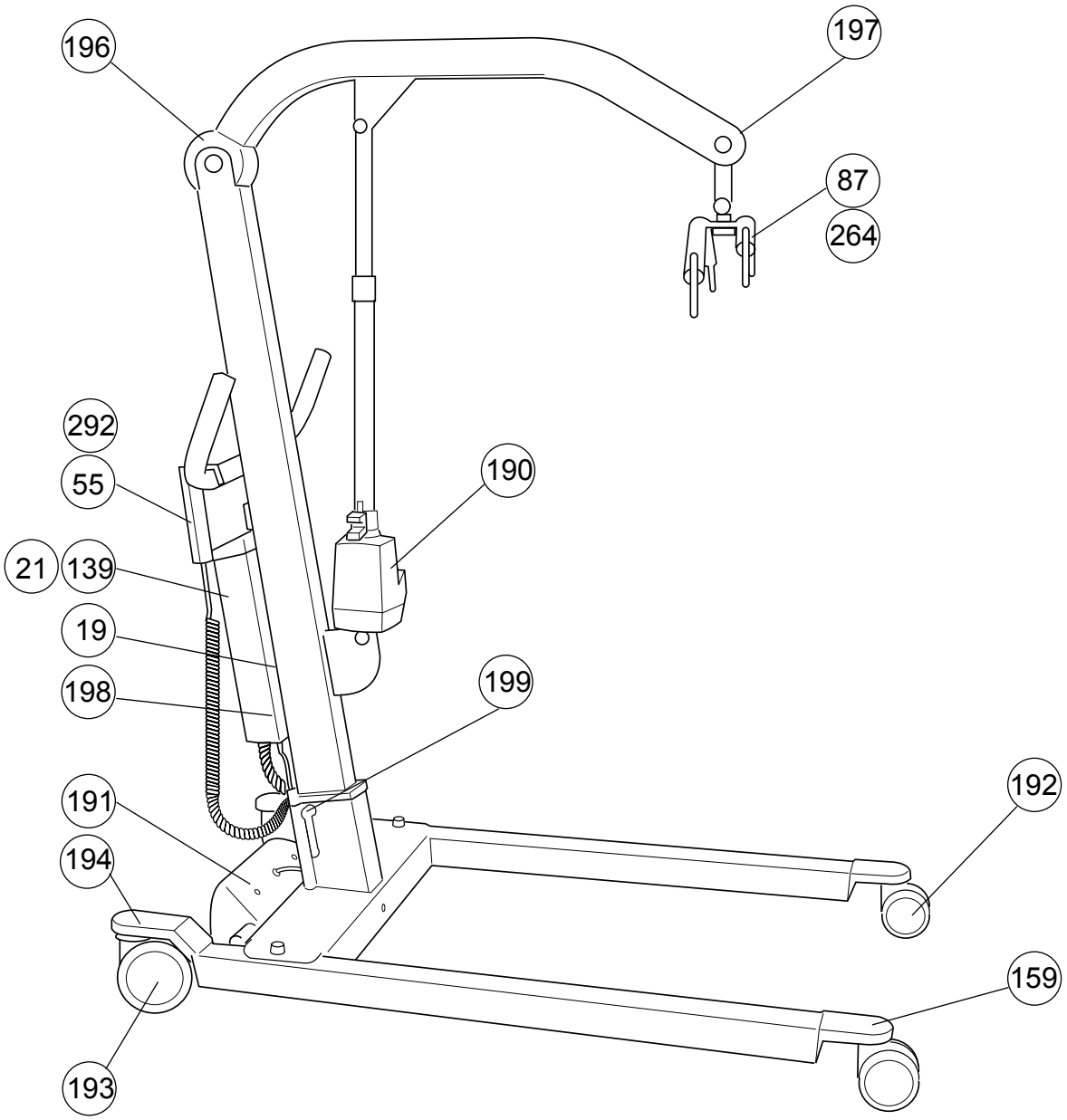
Modell	Maxlast	L* Max	L* Min	A* Max	A* Min	B	B¹	C	D	E*	F**	F¹	G	Vikt total	Vikt del	Vänd-diameter
Viking XL	300	187	66	211	161	142	96	77-116	64-104	104-114	14/11,5	4,5	90	42	23	151
		182	61	206	156											
		177	56	201	151											

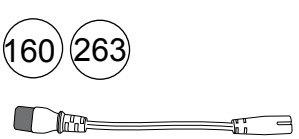
Maxlast och vikt i kg. Mått i cm.

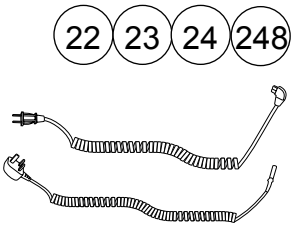
* Varierande mått beroende på höjdinställningsläge. Se montering av lyftpelare sid. 5.

** 14 cm är standard. 11,5 cm gäller med hjuldiameter 75 mm fram.

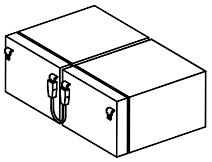
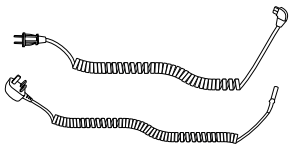
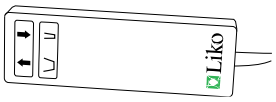
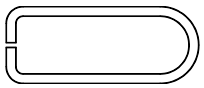
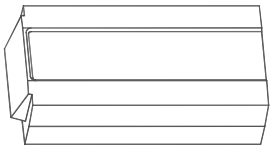
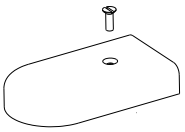
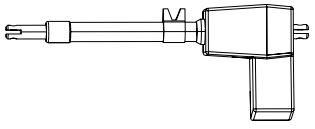
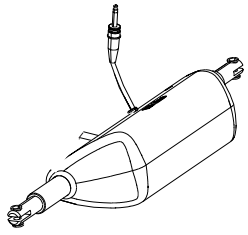
Position Viking XL



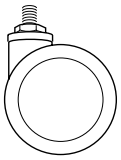
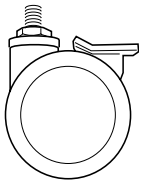
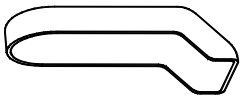
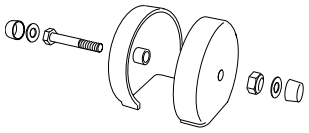
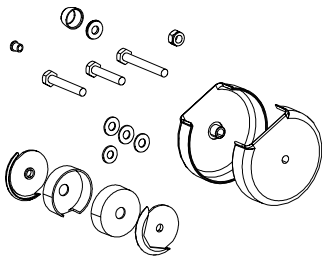
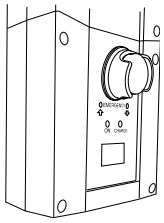
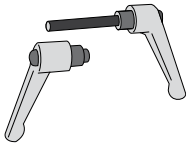
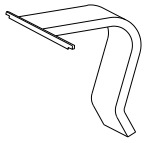




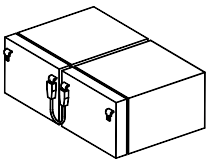
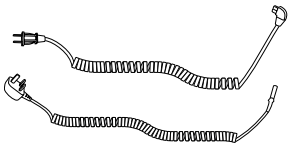
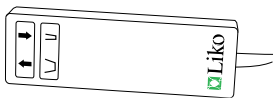
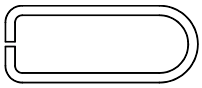
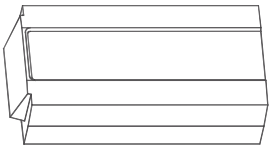
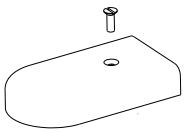
Viking XL

PART.NO	POS.NO	ARTICLE	UNIT	
20090023	19	Attachment for Control Box	pce	
20090025	21	Battery 2,9 Ah/12V	pair	
20090026 20090027 20090028 20090050	22 23 24 248	Cable for Charging, EU Cable for Charging, UK Cable for Charging, US Cable for Charging, AU/NZ	pce pce pce pce	
20190017	55	Hand Control EE 4-Button	pce	
31190018 31590011	87 264	Safety Latch Safety Latch Universal Slingbar (from S/N 800987)	pair pair	 X 2
2006106	139	Extra Battery box, incl. Batteries	pce	
20390006	159	Front Fork Cover LL,Vi	pair	 X 2
21090001 21090011	160 263	Extension Cable Extension Cable US	pce pce	
20490001	190	Actuator Viking XL	pce	
20490002	191	Base Motor Viking XL complete	pce	

Viking XL

PART.NO	POS.NO	ARTICLE	UNIT	
20490003	192	Front Wheel 100 mm	pce	
20490004	193	Rear Wheel 125 mm	pce	
20490005	194	Rear Fork Cover	pair	 X 2
20490007	196	Lift Arm Plastic Cover Vi	set	
20490008	197	Overhead Beam Restoration set	set	
20490009	198	Control Box Viking XL	pce	
20490010	199	Locking Handle Viking XL (from S/N 800987)	pair	
20090058	292	Hook for Hand control 2, 4, 6	pce	

Viking XL

PRODUKT NR	POS.NR	PRODUKTBESKRIVNING	ENHET	
20090023	19	Monteringsbeslag kontrollbox	st	
20090025	21	Batteri 2,9 Ah/12V	par	
20090026 20090027 20090028 20090028	22 23 24 248	Laddningskabel EU Laddningskabel UK Laddningskabel US Laddningskabel AU/NZ	st st st st	
20190017	55	Handkontroll EE 4-Knapp	st	
31190018 31590011	87 264	Urkrokningsskydd Urkrokningsskydd Universal bygel (från S/N 800987)	par par	 X 2
2006106	139	Batteribox inkl. batterier	st	
20390006	159	Hjulkåpa LL, Vi, Golvo	par	 X 2
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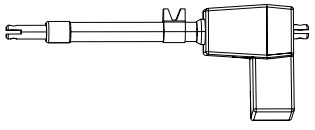
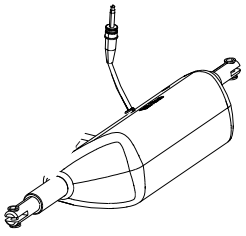
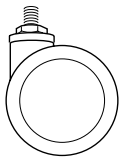
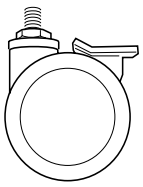
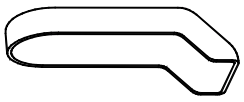
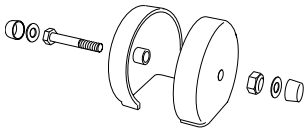
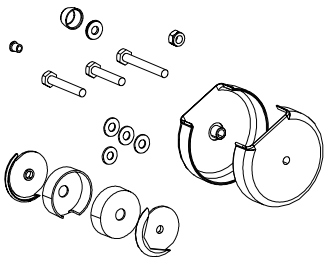
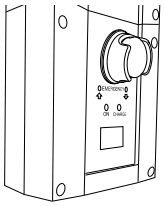
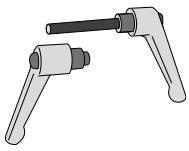
20490001	190	Ställdon Viking XL	st	
20490002	191	Motor Viking XL Underrede	st	

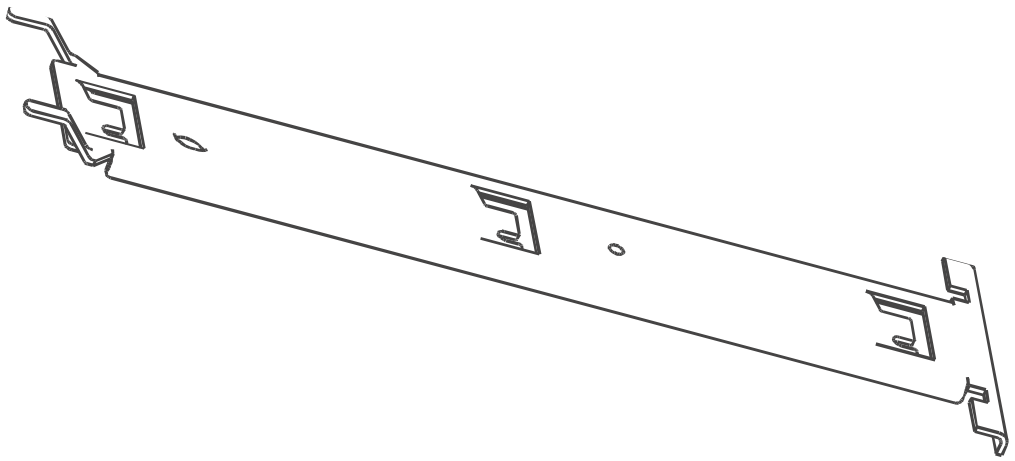
Viking XL

PRODUKT NR	POS.NR	PRODUKTBESKRIVNING	ENHET	
20490003	192	Framhjul 100 mm	st	
20490004	193	Bakhjul 125 mm	st	
20490005	194	Bakhjulskåpa	par	 X 2
20490007	196	Pelarkåpa Vi	set	
20490008	197	Renoveringssats lyftarm Vi	set	
20490009	198	Kontrollbox Viking XL	st	
20490010	199	Låsvred Viking XL (från S/N 800987)	par	
20090058	292	Krok för handkontroll 2,4,6	st	

Attachment for Control Box
Monteringsbeslag kontrollbox

Prod.no: 20090023
2006-01-03

Serial no ..... Version ..... Release .....



x3

Details	Detail no.	Unit.
Attachment for controlbox MBJ2	900000001	1
Screw MRT-GF M5x16		3

Liko

5.19.1

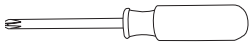
Assembly Instruction
Monteringsanvisning

Attachment for Control Box
Monteringsbeslag kontrollbox

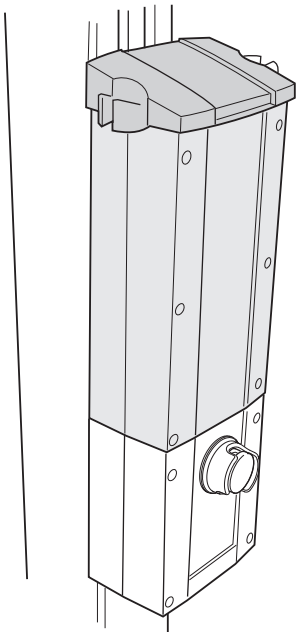
Prod.no: 20090023

Doc. no: 3SE630238-01
2006-02-10

Tools required:



1.



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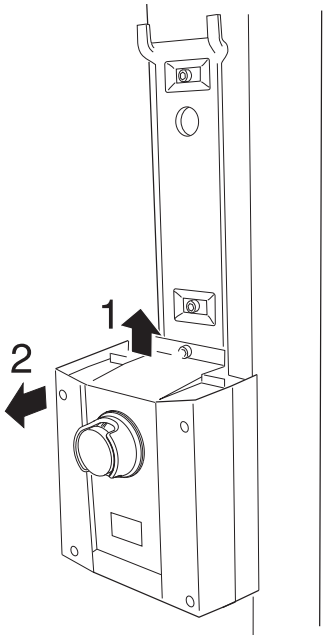

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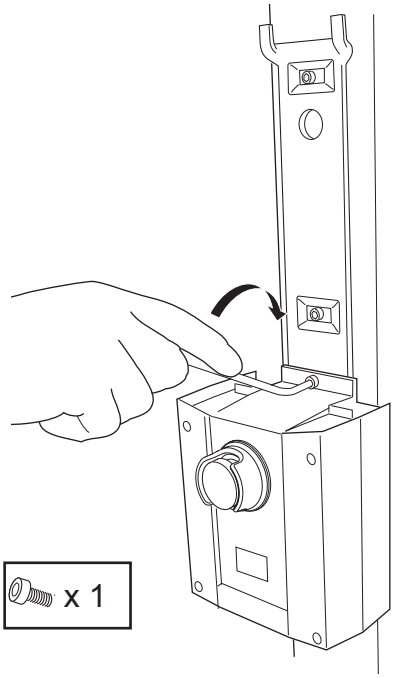

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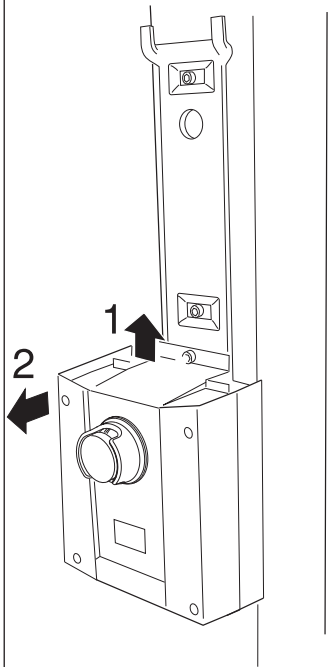

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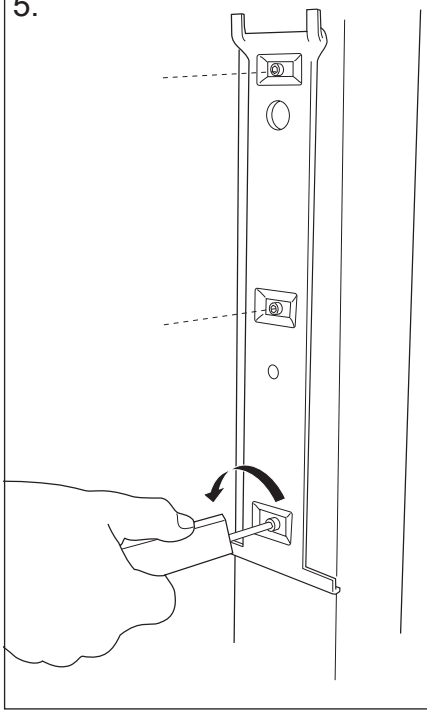
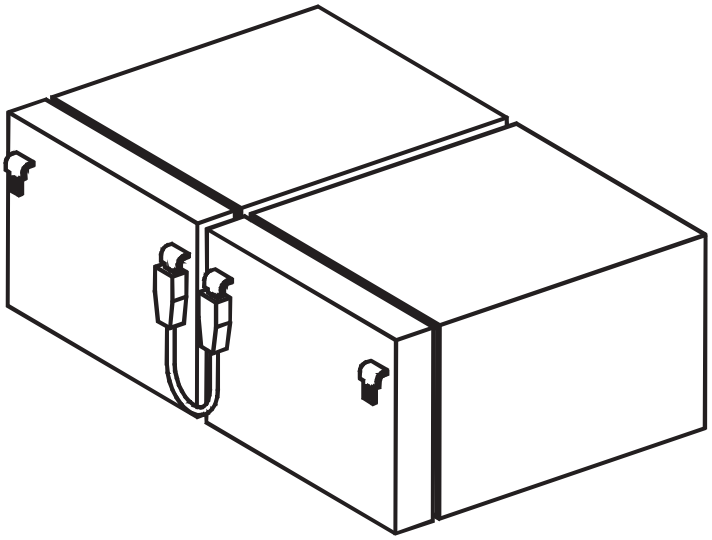


Battery 2,9 Ah/12V
Batteri 2,9 Ah/12V

Prod.no: 20090025
2003-10-02

Serial no ..... Version ..... Release .....

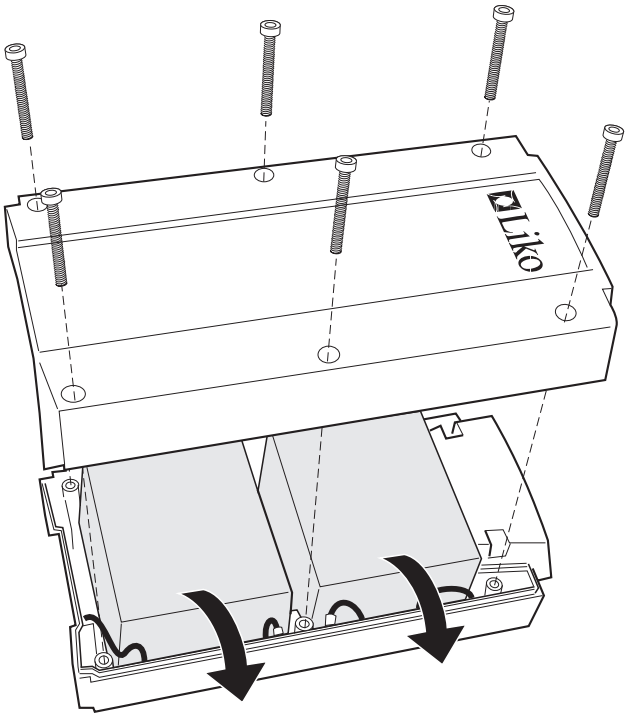


Details	Detail no.	Unit.
Battery 1 pair with cable	95000053	1

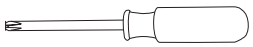
Battery 2,9Ah/12V
Batteri 2,9Ah/12V

Prod.no: 20090025

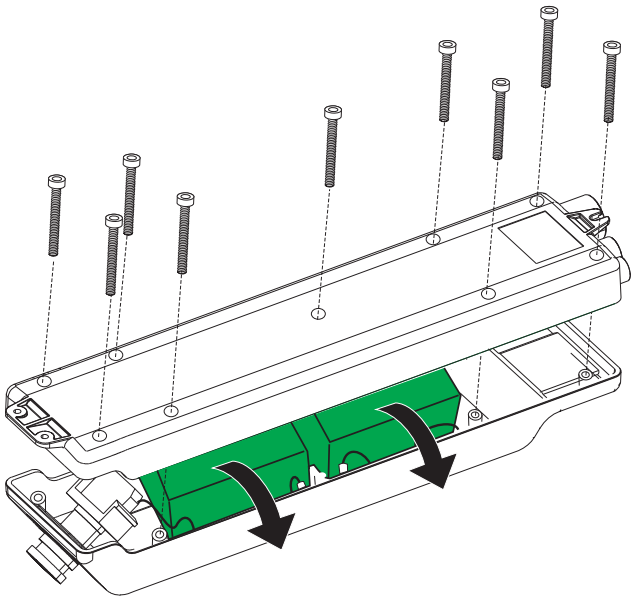
Doc. no: 3SE380201-01
2005-09-02



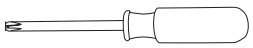
Tools required:



T20



Tools required:



T20

Old batteries are to be left to personnel authoriserad by Liko, or at the nearest station for environmental recycling.

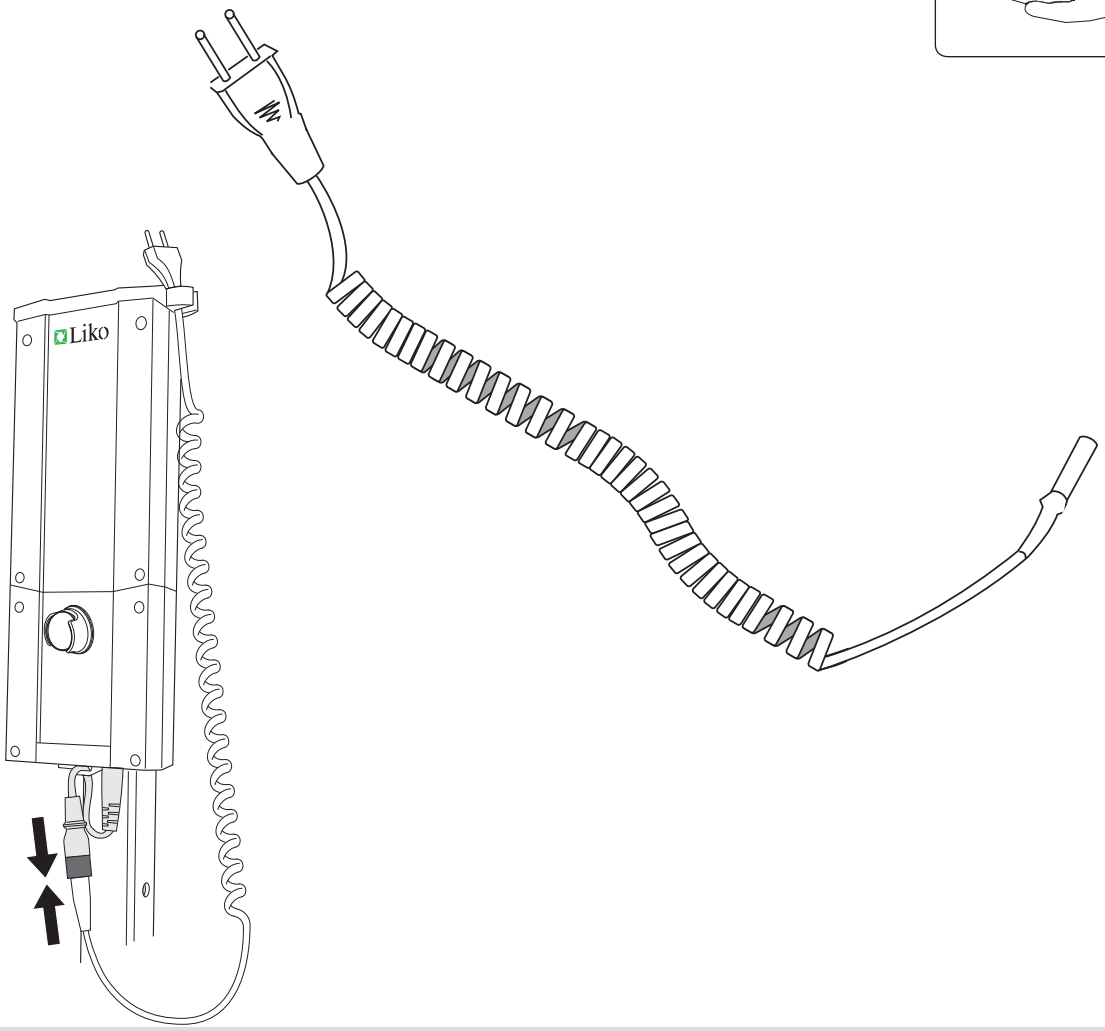
Assembly Instruction
Monteringsanvisning

Cable for Charging, EU
Laddningskabel EU

Prod.no: 20090026

Doc. no: 3SE630237-01
2006-03-01

Tools required:



Details	Detail no.	Unit.
Cable for charging EU	9500000EU	1

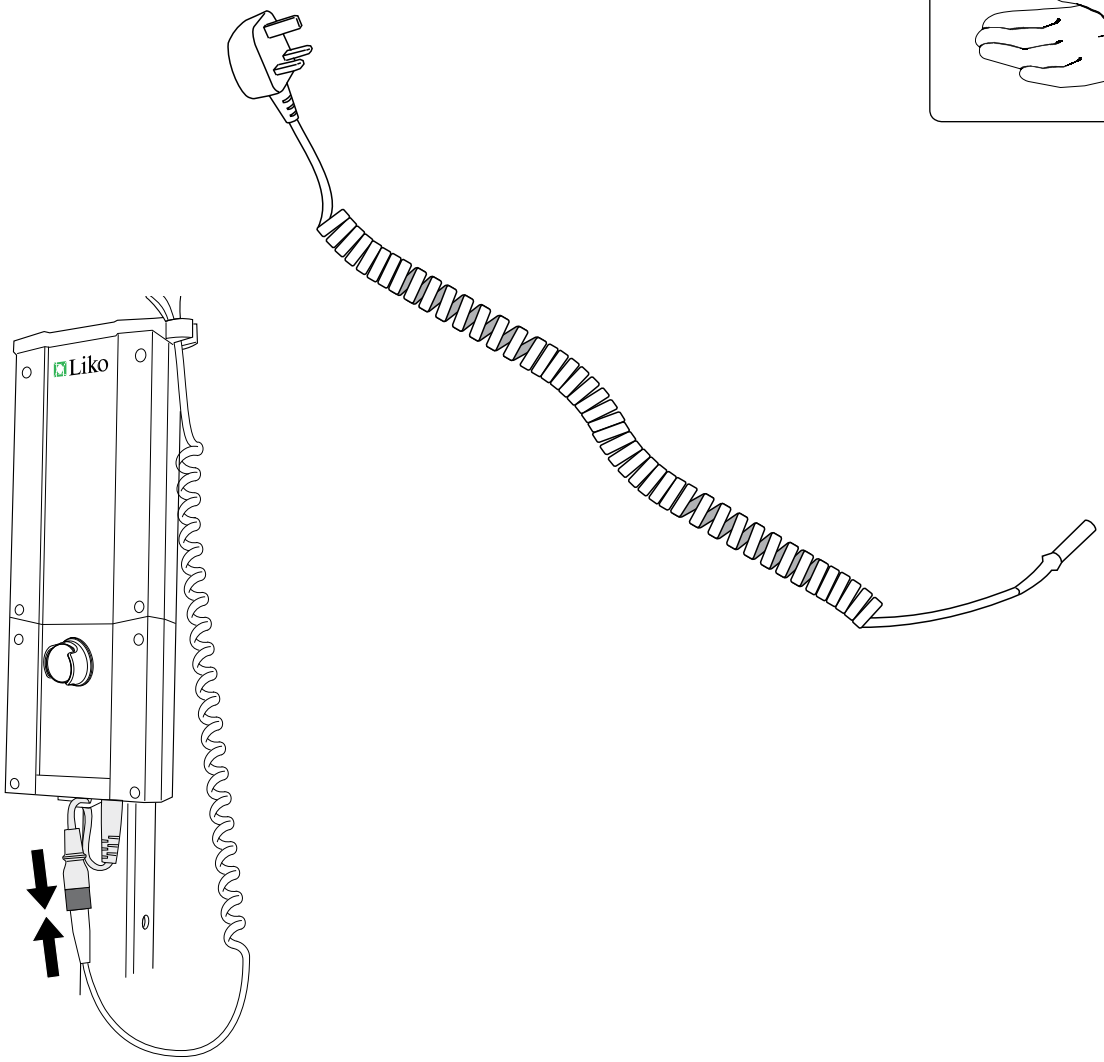
Assembly Instruction
Monteringsanvisning

Cable for Charging, UK
Laddningskabel UK

Prod.no: 20090027

Doc. no: 3SE630241-01
2006-03-21

Tools required:



Details	Detail no.	Unit.
Cable for charging UK	9500000UK	1

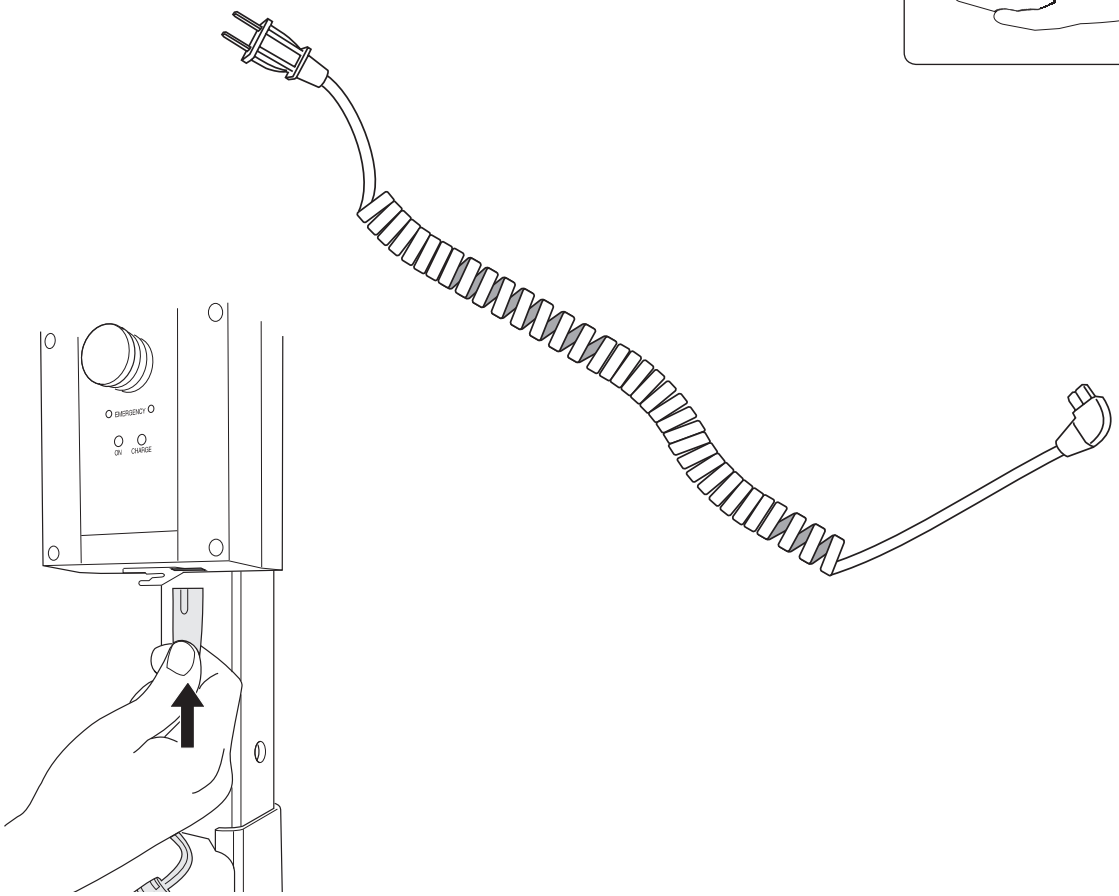
Cable for Charging, US
Laddningskabel US

Prod.no: 20090028

Doc. no: TI 20090028
2003-10-02

Serial no ..... Version ..... Release .....

Tools required:



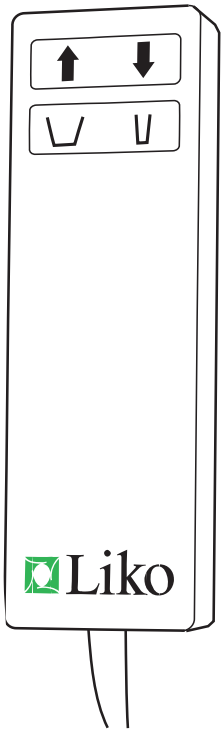
Details	Detail no.	Unit.
Cable for charging US	9500000US	1

Spareparts Specification
Reservdelslista

Handcontrol EE, 4-button
Handkontroll EE, 4-knapp

Prod.no: 20190017
2003-10-02

Serial no ..... Version V2 ..... Release .....

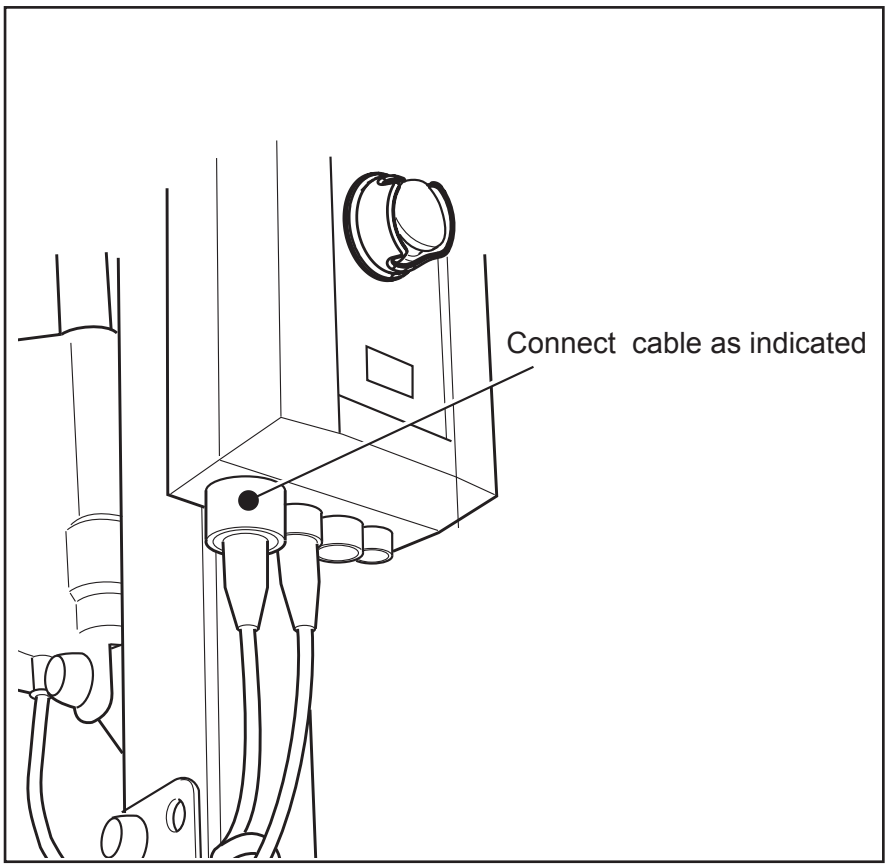


Details	Detail no.	Unit.
Hand control 4-button	950000048	1

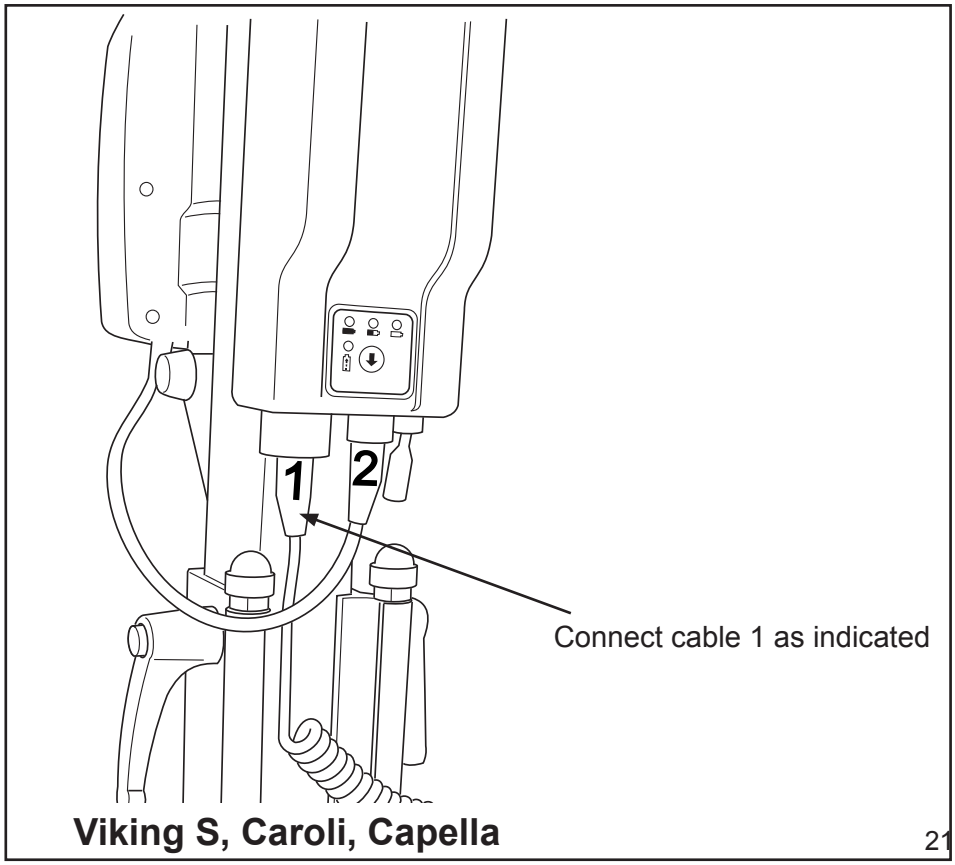
Hand Control 2, 4, 6-button
Handkontroll 2, 4, 6-knapp

Prod.no: 20090024
20190016
20190017

Doc. no:3SE630204-05
2005-11-29



Tools required:

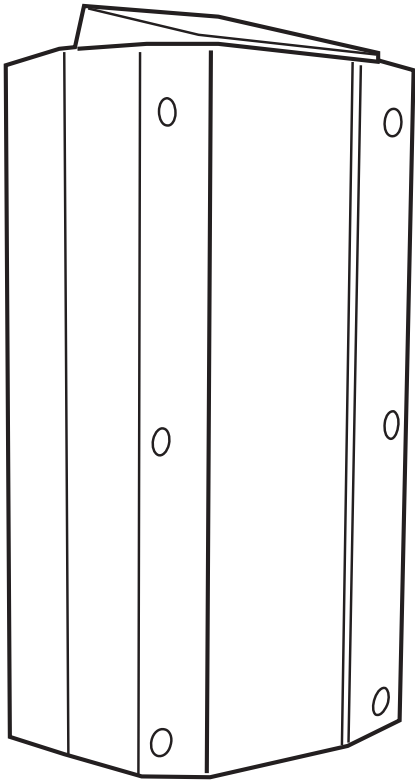


Viking S, Caroli, Capella

Extra Battery Box, incl. Batteries
Batteribox inkl. batterier

Prod.no: 2006106
2004-03-09

Serial no ..... Version ..... Release .....



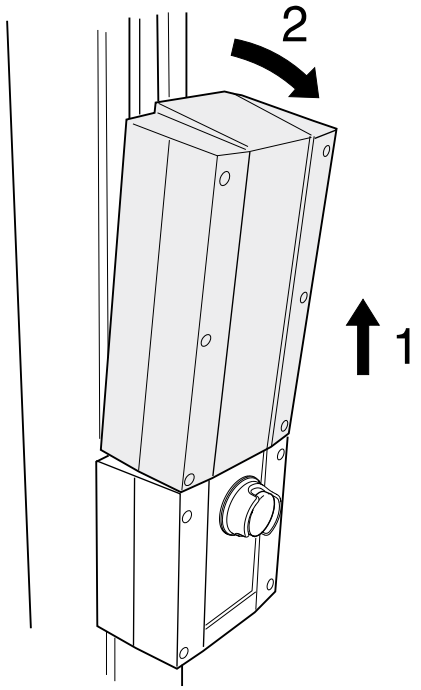
Details	Detail no.	Unit.
Battery box	950000044	1

Extra Battery Box, incl Batteries
Batteribox inkl batterier

Prod.no: 2006106

Doc. no: 3SE630224-01
2005-12-05

1.



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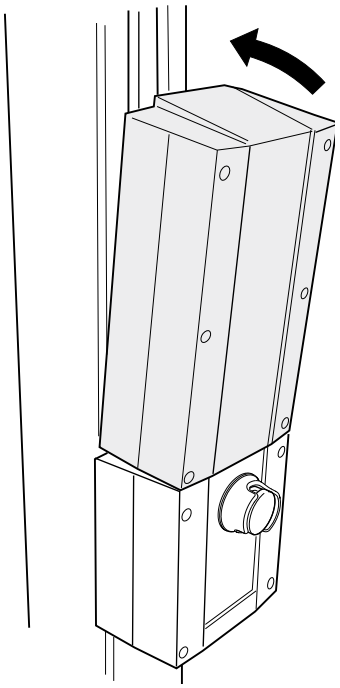

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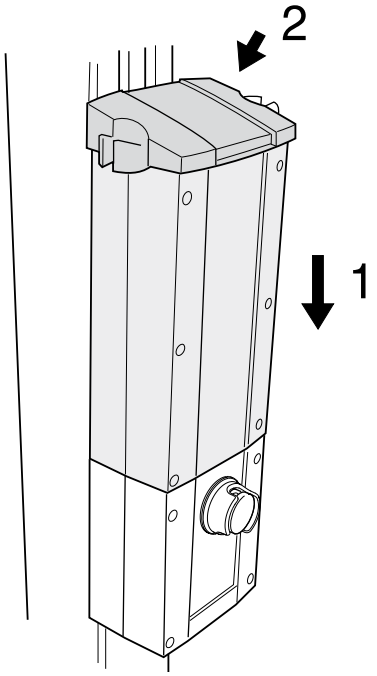
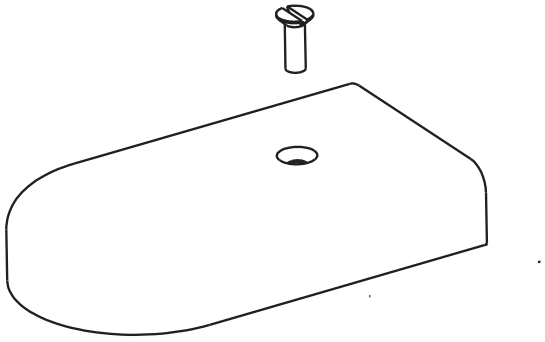


Old batteries are to be left to personal authorised by Liko, or at the nearest station for environmental recycling.

Front Fork Cover LL, Vi
Hjulkåpa LL, Vi

Prod.no: 20390006
2004-03-09

Serial no ..... Version V2 ..... Release .....



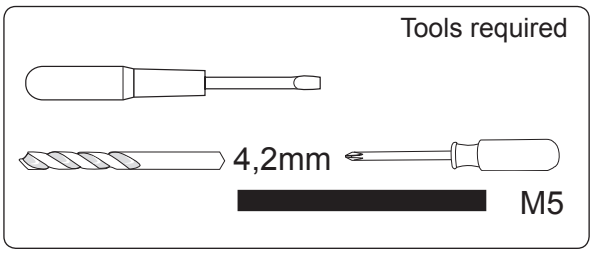
Details	Detail no.	Unit.
Front fork cover	900000419	2
Screw M5x16N	930000424	2

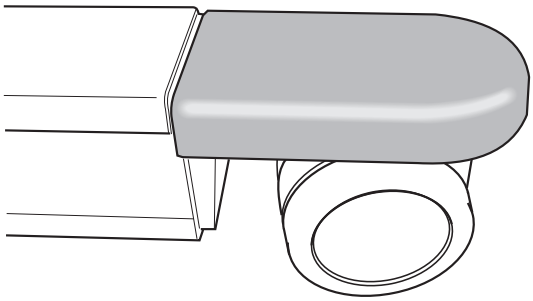
Assembly Instruction
Monteringsanvisning

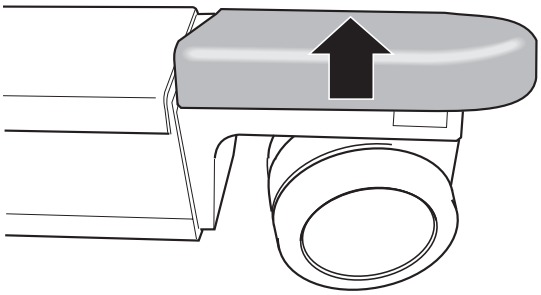
Front Fork Cover LL,Vi
Framhjulskåpa LL,Vi

Prod.no: 20390006

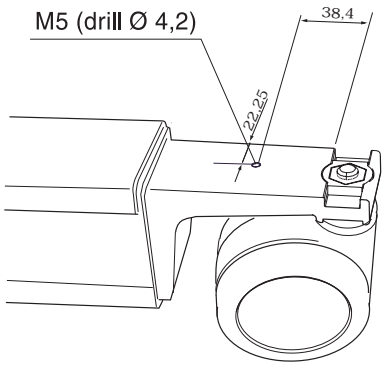
Doc. no: 3SE380202-01
2005-09-05







3. If not prepared with hole, drill [mm.]



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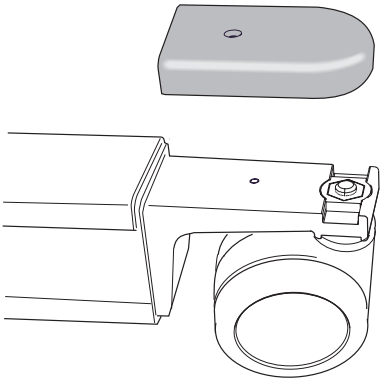

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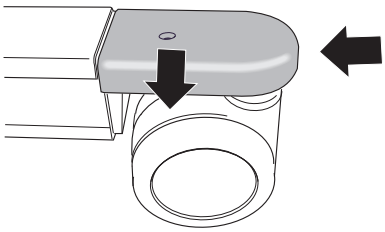

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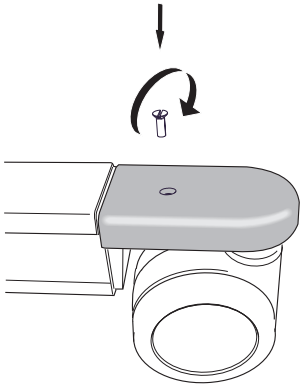
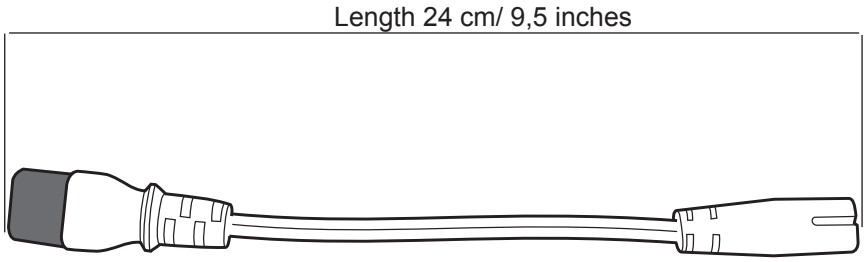


Extension Cable
Skarvkabel

Prod.no: 21090001
2003-10-02

Serial no ..... Version V2 ..... Release .....



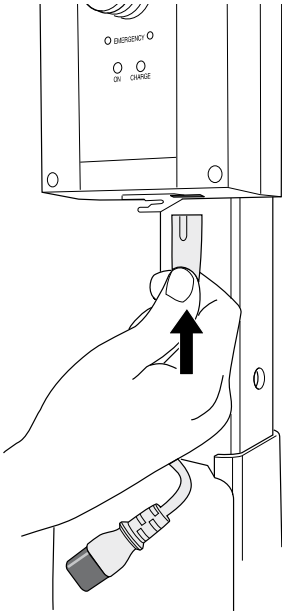
Details	Detail no.	Unit.
Extension cable	950000058	1

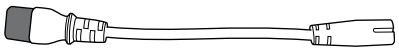
Extension Cable
Skarvkabel

Prod.no: 21090001

Doc. no: 3SE630225-01
2005-12-22

1.





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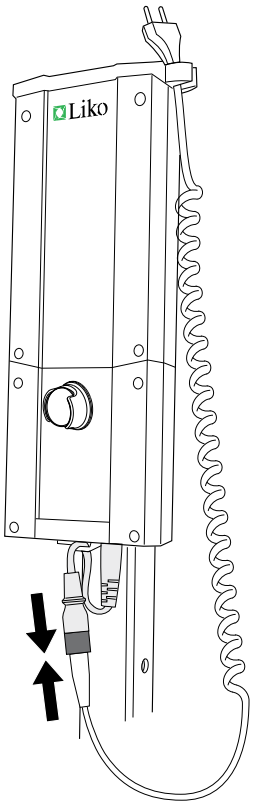

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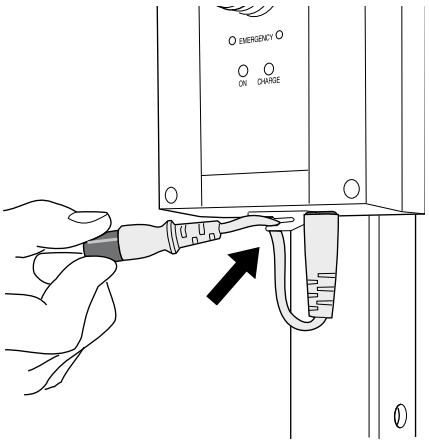
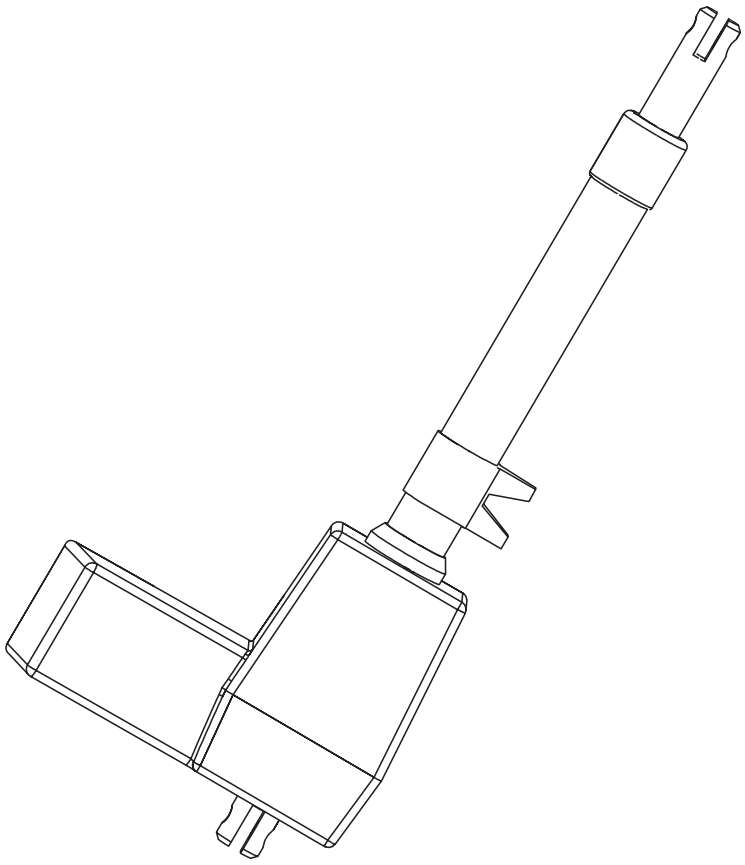


Actuator Viking XL
Ställdon Viking XL

Prod.no: 2049001
2004-03-09

Serial no ..... Version ..... Release .....



Details	Detail no.	Unit.
Actuator LA 34 XL	20490001	1
Locking nut M10	900000041	2

Liko

5.190.1

Assembly Instruction
Monteringsanvisning

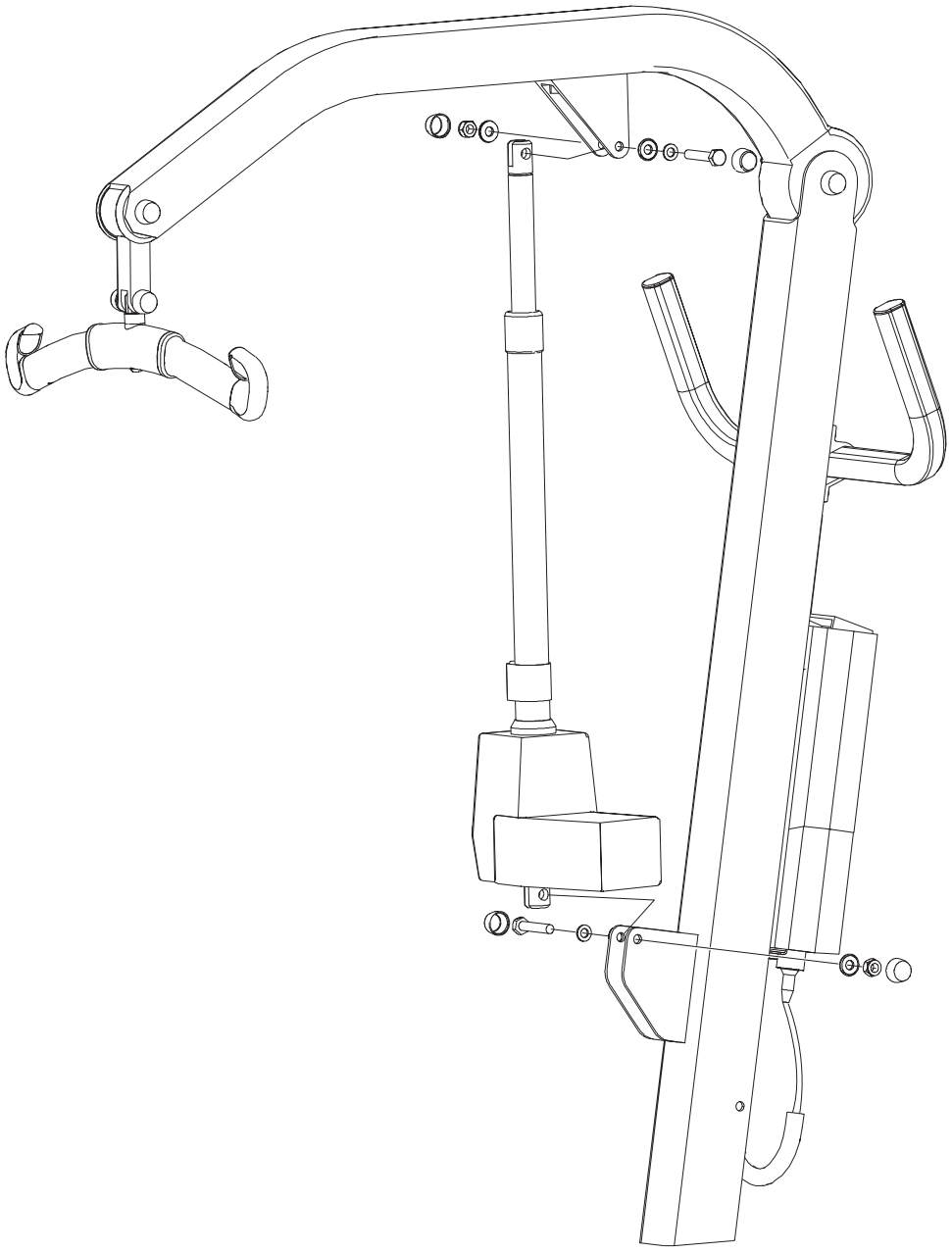
Actuator Viking XL
Ställdon Viking XL

Prod.no: 2049001

Doc. no: TI 2049001
2004-03-09

Tools required

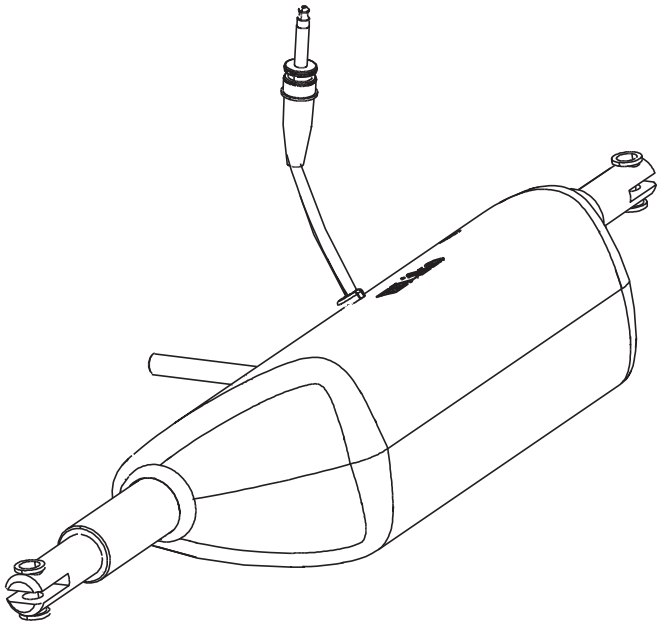
2X 17 mm



Base Motor Viking XL complete
Motor Viking XL Underrede

Prod.no: 20490002
2004-09-29

Serial no from 800635 Version V2 Release

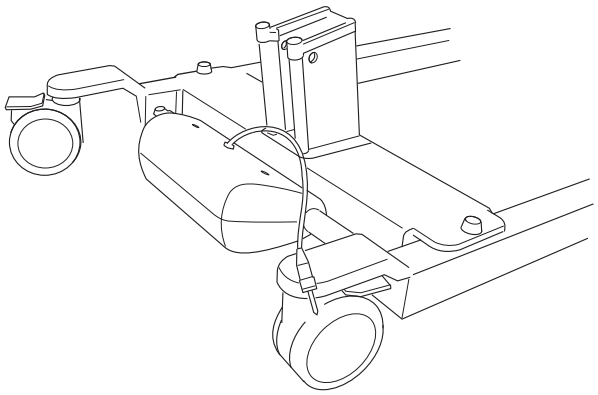


Details	Detail no.	Unit.
Actuator LA 30	940000011	1
Locking nut M4	900000041	2
Axle 10X55	901126353	1
Motor cable	950000054	1
Conduit entry	900000088	1
Motor cover	901012615	2
Nut M10	930000268	1
Screw 4x55	930000356	2
Coverhat	900000898	2

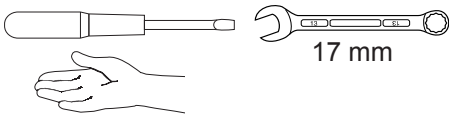
Base Motor Viking XL complete
Motor Viking XL Underrede

Prod.no: 20490003

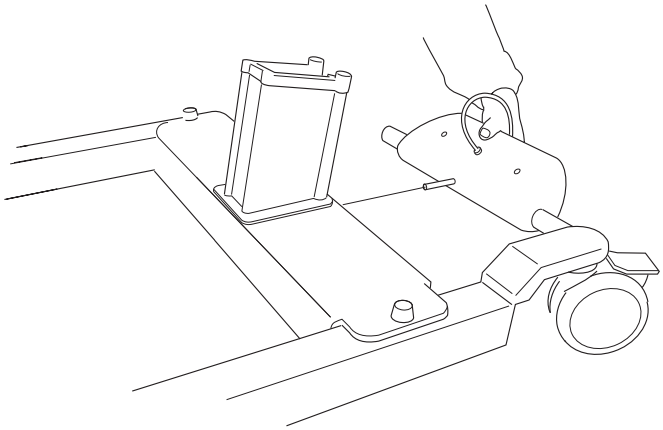
Doc. no: TI 20490003
2004-03-09



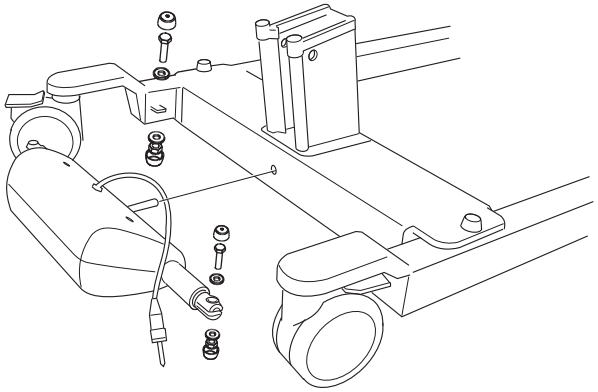
Tools required



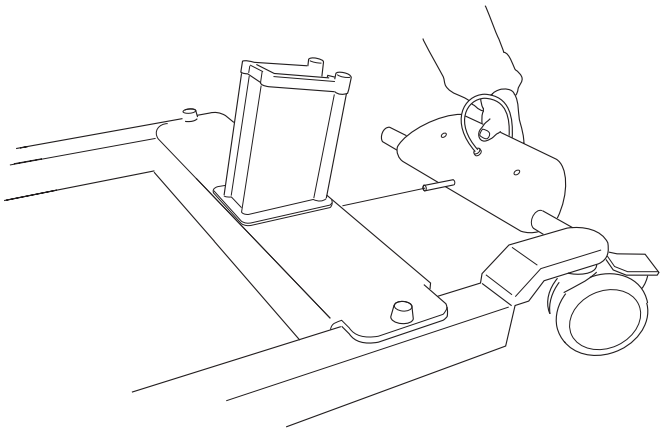
1. Unfasten base motor by removing the bolt connections, see picture 3.



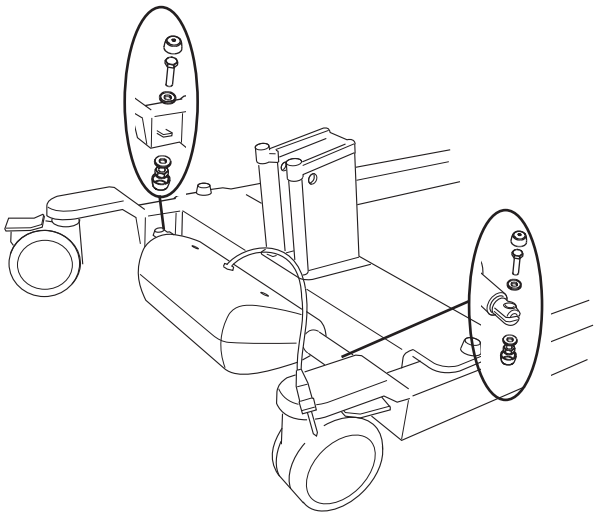
2. Remove actuator by pulling the actuator out.



3.



4. Change Base motor by pushing the motoras axle in to the middle beam hole

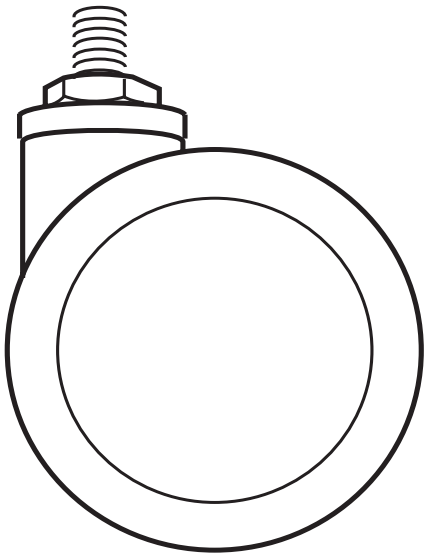


5. Finish the assembling by mounting the bolt connections and ensure functionality by making a functional test of the base motor.

Front Wheel 100 mm
Framhjul 100 mm

Prod.no: 20490003
2004-03-09

Serial no ..... Version ..... Release .....



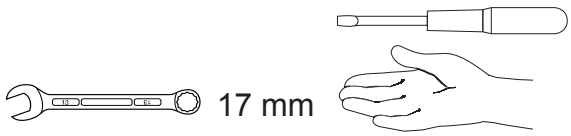
Details	Detail no.	Unit.
Front wheel D100	910000007	1

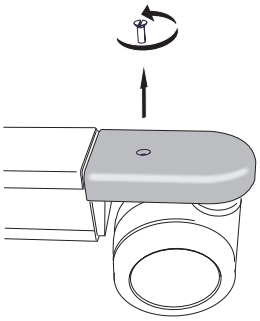
Front Wheel 100 mm
Framhjul 100 mm

Prod.no: 20490003

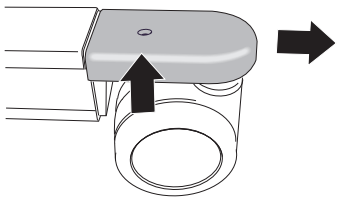
Doc. no: TI 20490003
2004-03-09

Tools required

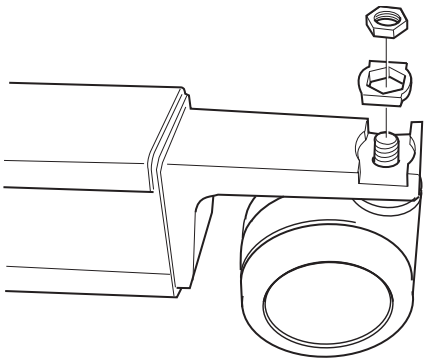




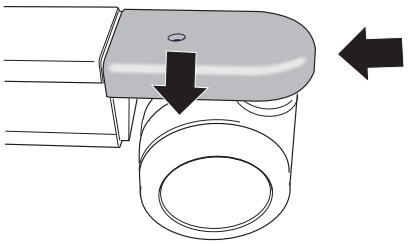
1.



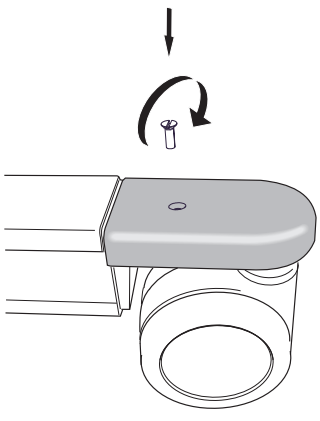
2.



3.



4.

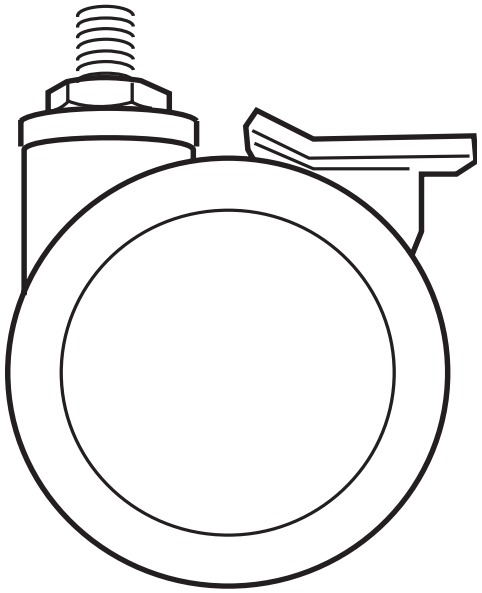


5.

Rear Wheel 125 mm
Bakhjul 125 mm

Prod.no: 20490004
2004-03-09

Serial no ..... Version ..... Release .....

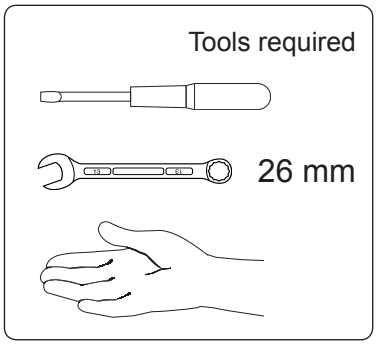


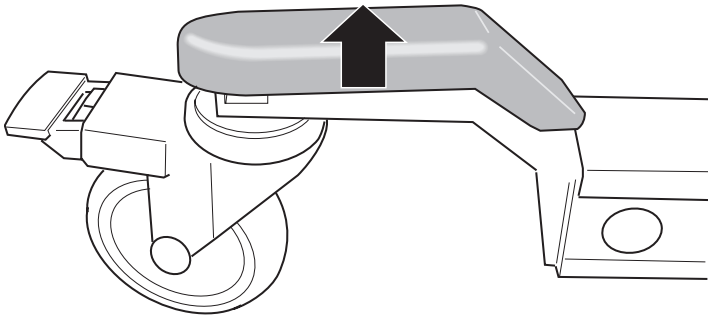
Details	Detail no.	Unit.
Rear wheel 125mm	910000001	1

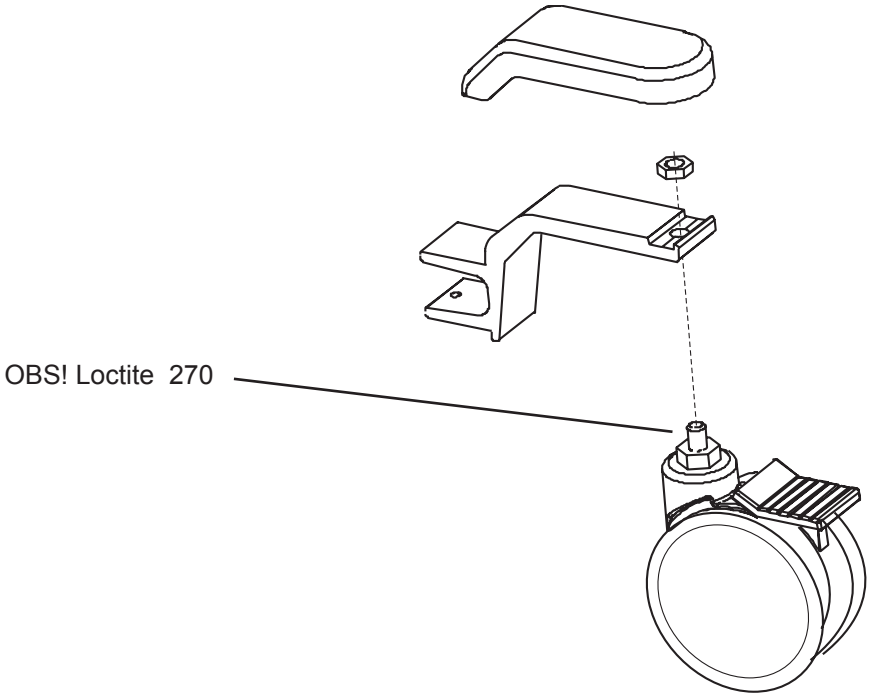
Rear Wheel 125 mm
Bakhjul 125 mm

Prod.no: 20490004

Doc. no: TI 20490004
2003-10-02



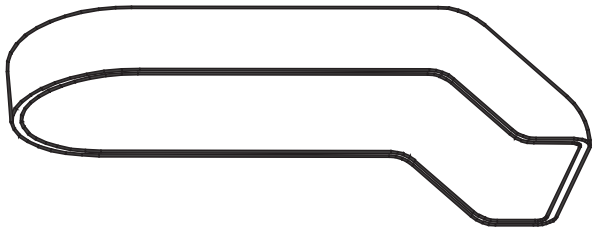




Rear Fork Cover
Bakhjulskåpa

Prod.no: 20490005
2004-03-09

Serial no ..... Version ..... Release .....



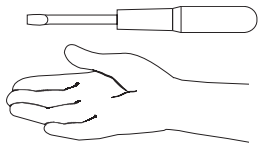
Details	Detail no.	Unit.
Rear fork cover	901931165	2

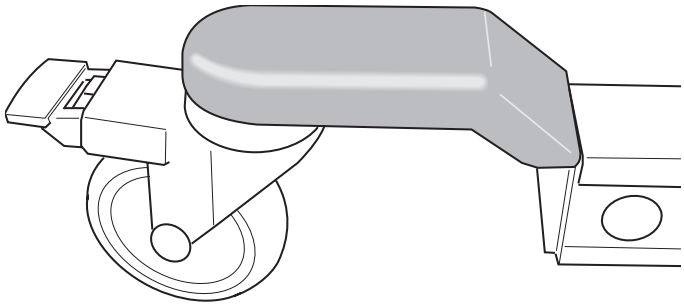
Rear Fork Cover
Bakhjulskåpa

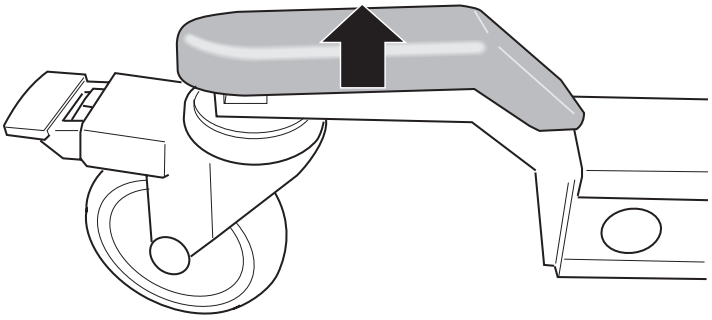
Prod.no: 20490005

Doc. no: TI 20490005
2003-10-02

Tools required



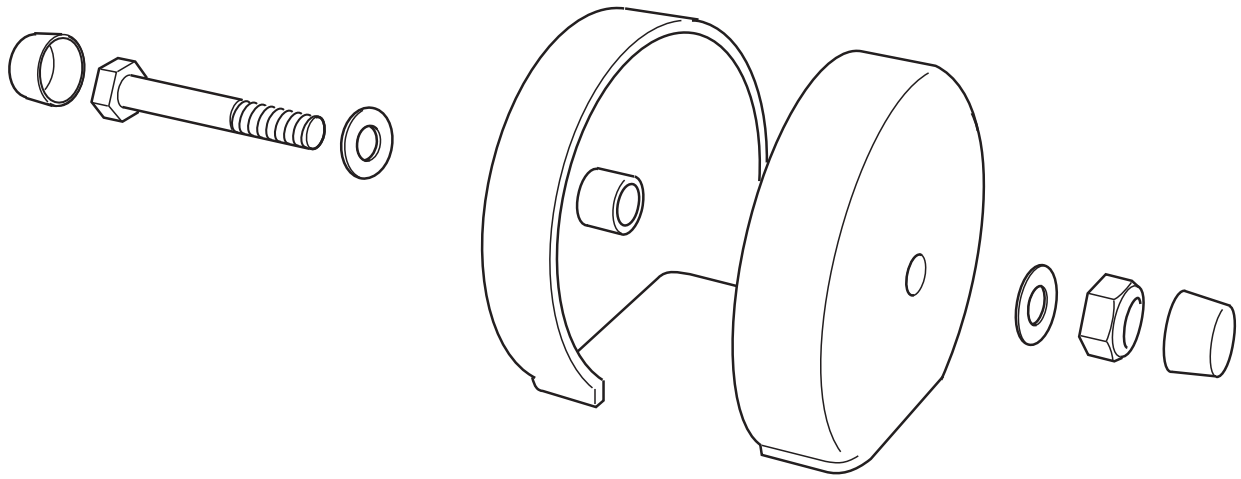




Lift Arm Plastic Cover
Pelarkåpa Vi

Prod.no: 20490007
2004-03-09

Serial no ..... Version ..... Release .....

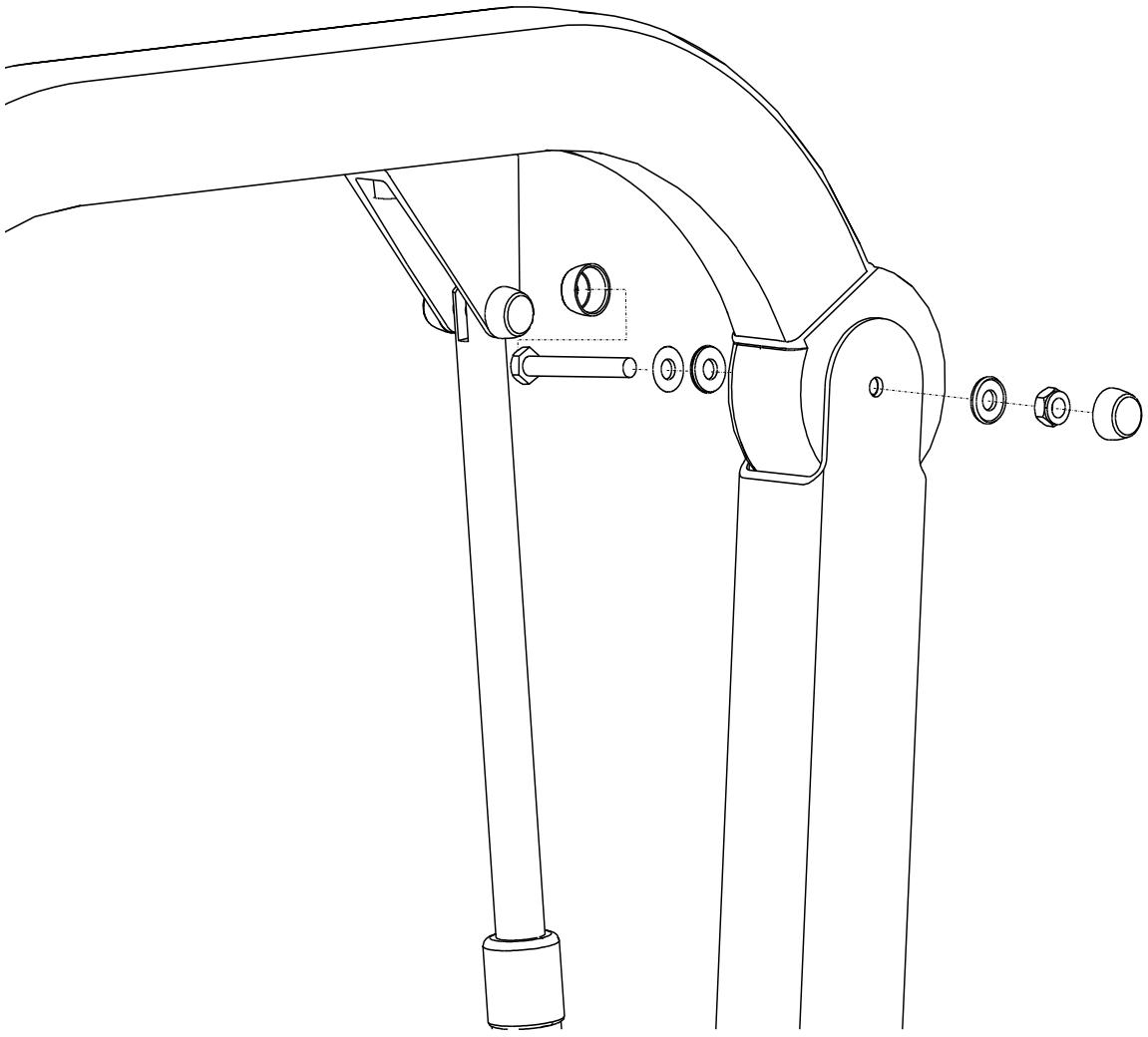


Details	Detailnr.	Unit.	Details	Detailnr.	Unit.
Half shell mast Viking	901012617	2	Screw M6S M10x80	930000377	1
Top cover M10 Grey	900000043	2	Locking nut M10	930000010	1
Washer DIN433 10,5x18x1,6	930000019	1			

Lift Arm Plastic Cover
Pelarkåpa sats

Tools required

2X 17 mm

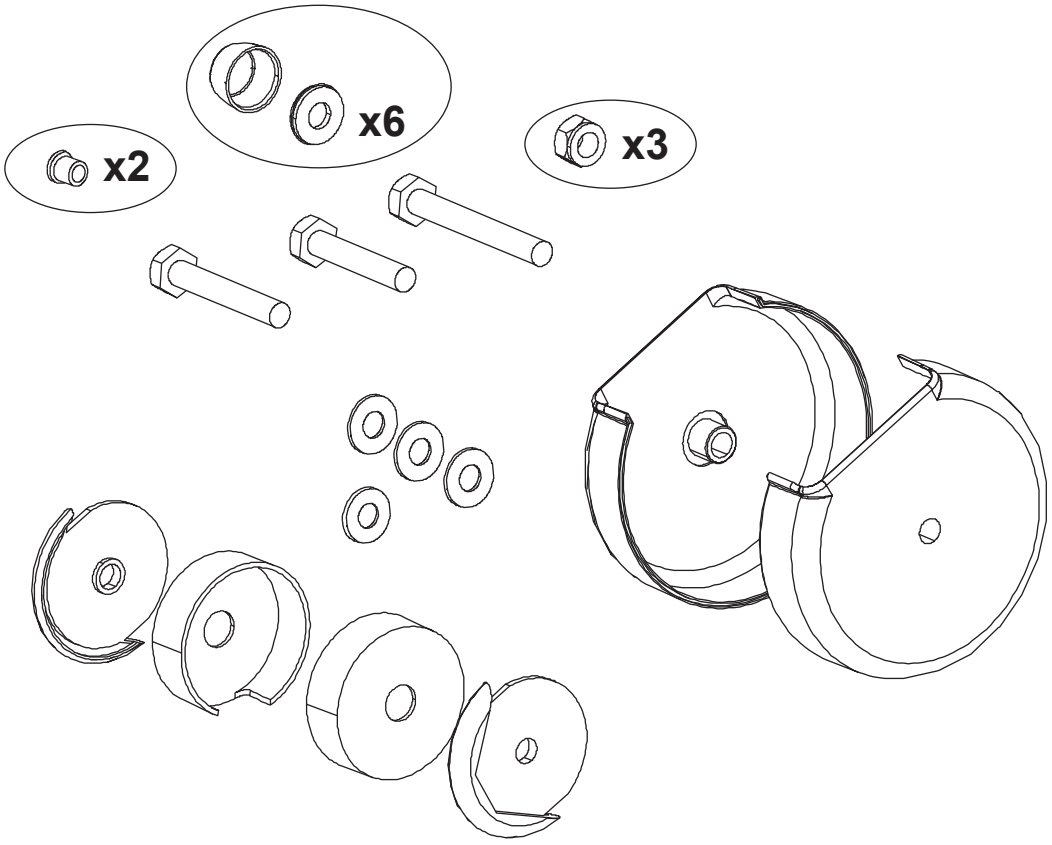


* Remove existing grey hubcups

Overhead Beam Restoration set
Renoveringssats lyftarm Vi

Prod.no: 20490008
2006-01-04

Serial no ..... Version ..... Release .....



Details	Detail no.	Unit.
Half shell mast Viking	901012617	2
Lift arm insert Y Viking	901012618	2
Lift arm insert I Viking	901012619	2
Hubcups M10	900000043	6
Screw M6S M10x56 Gl 12	930000053	1
Locking nut Din 985	900000010	3
Screw M6S M10x80	930000536	1
Screw M6S M10x65 Gl 11	930000535	1
Spacer ring PS 10/16x1 DI	930000128	1
Sleeve plastic, actuator LA34	900002149	2
Distance washer PS12x18x0,5	930000341	3

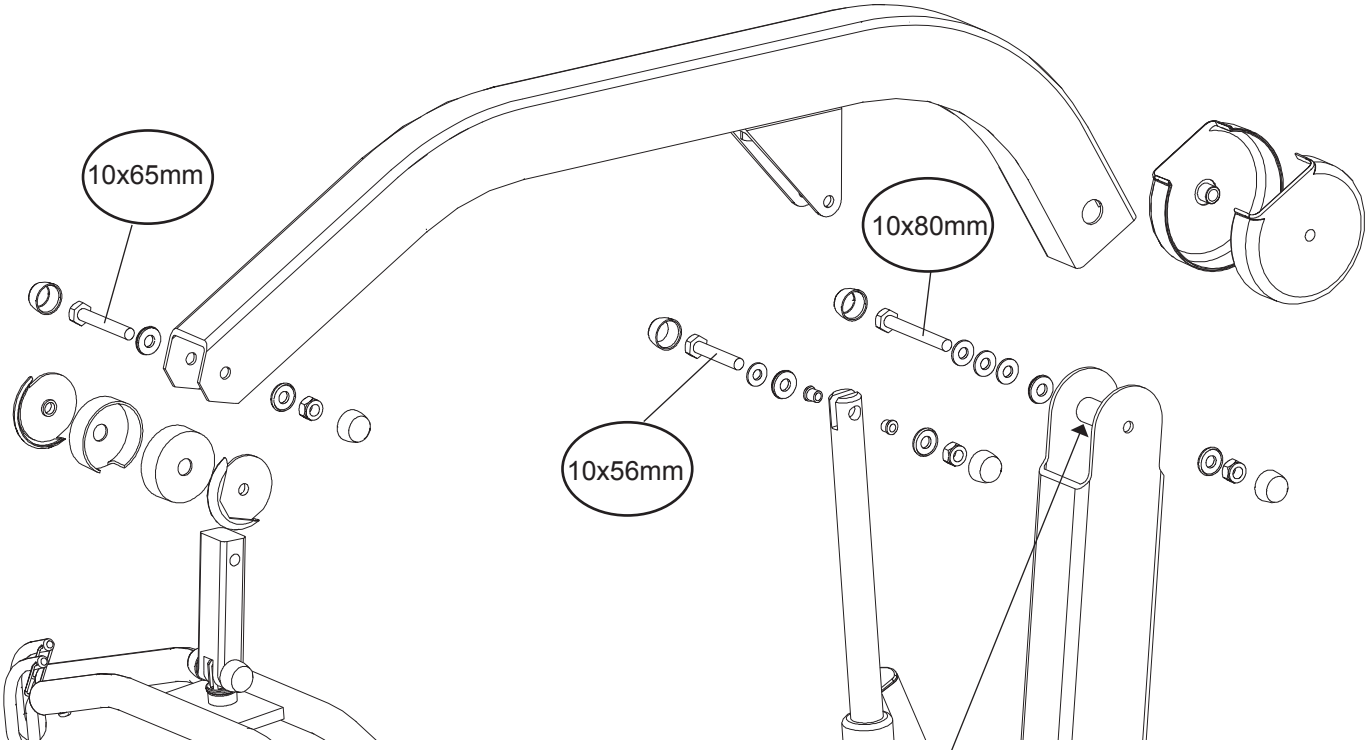
Overhead Beam Restoration set
Renoveringssats lyftarm

Prod.no: 20490008

Doc. no:3SE630228-01
2006-01-09

Tools required

2X 17 mm

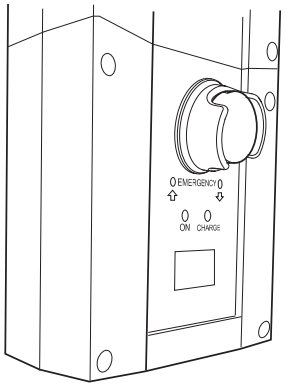


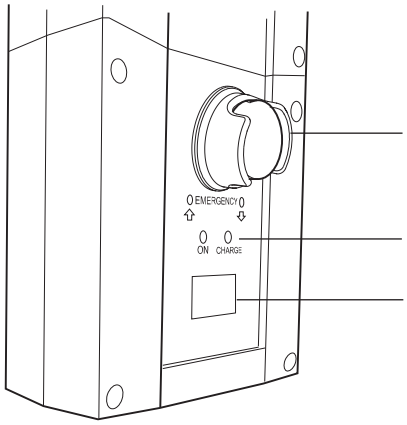
Make sure that the casing is in this position when the arm is mounted.

Control Box Viking XL
Kontrollbox Viking XL

Prod.no: 20490009
2004-03-09

Serial no ..... Version ..... Release .....





Electrical Emergency Lowering

Indication lights

LCD-display showing battery capacity.

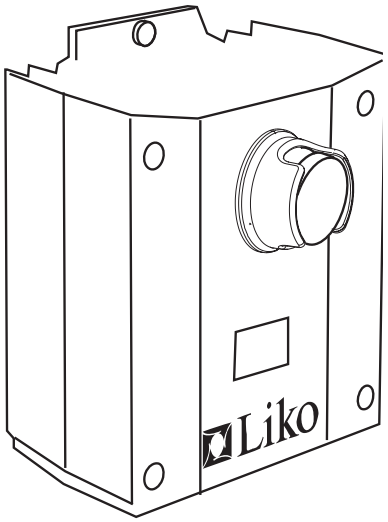
Details	Detail no.	Unit.
Control box Viking	950000105	1

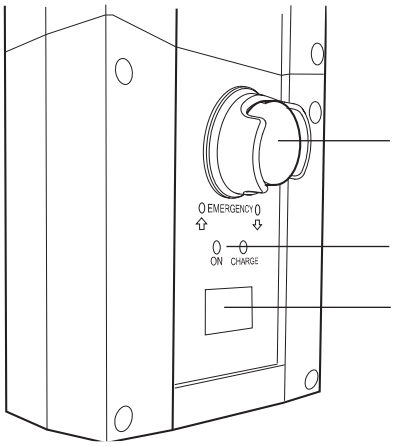
Spareparts Specification
Reservdelslista

Control Box Viking XL
Kontrollbox Viking XL

Prod.no: 20490009
2006-03-02

Serial no ..800987..... Version ..2..... Release .....





Electrical Emergency Lowering

Indication lights

LCD-display showing battery capacity.

Details	Detail no.	Unit.
Control box Viking	950000105	1
Top cover IKPT 12 15 G	900000292	1
Emergency guard	901535091	1

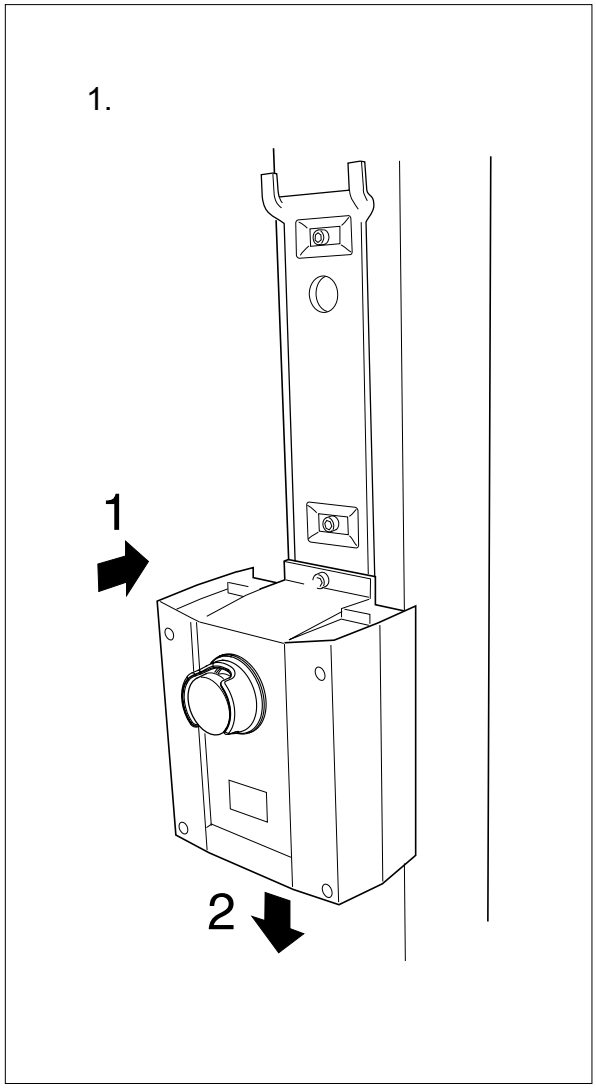
Control Box
Kontrollbox

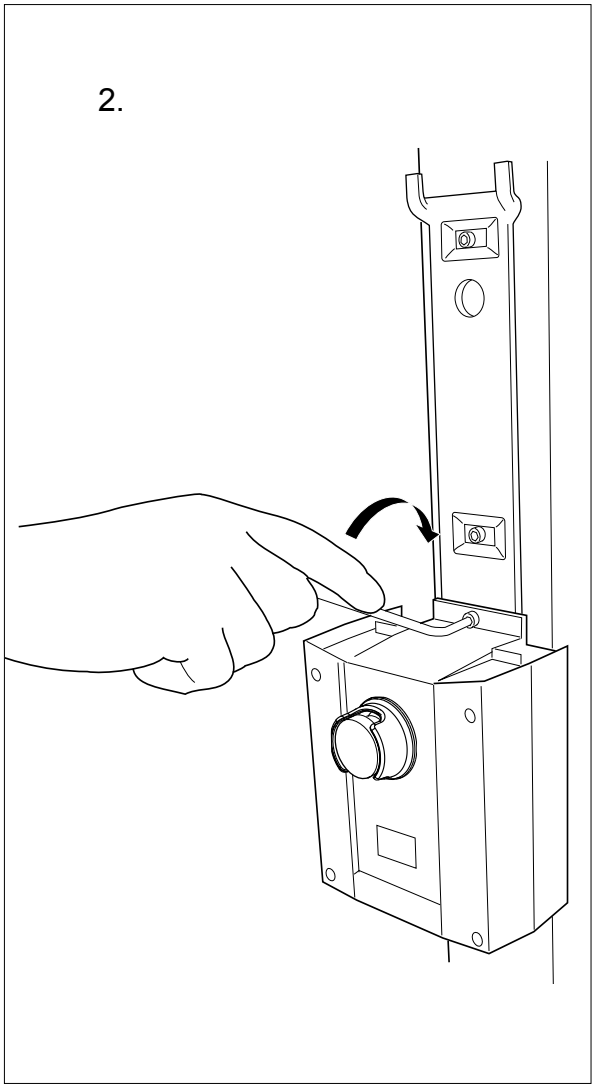
Prod.no: 20090022, 20190013
20190014, 20290011
20290024, 20390007
20490009, 20490013

Doc. no: 3SE630223-02
2005-12-08

Tools required:

3 mm



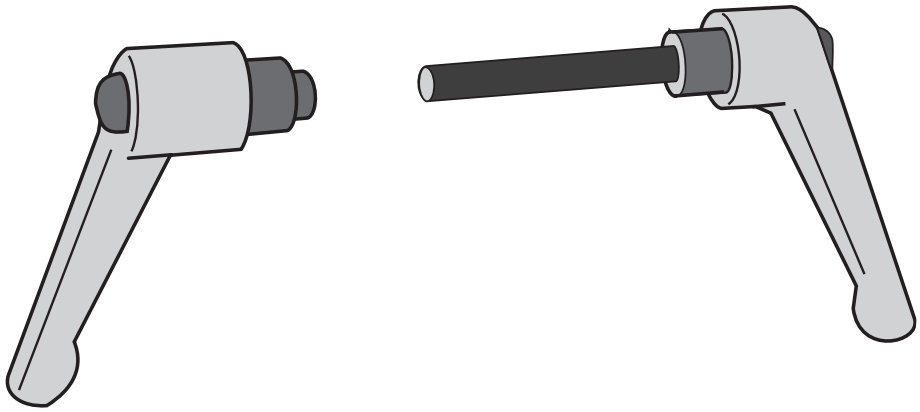


20090022 Golvo 7000/7007
20190013 Uno 100/102 EE, EM
20190014 Uno 100/102 ES
20290011 Sabina
20290024 Sabina II
20390007 Liko Light
20490009 Viking L, Viking XL
20490013 Viking M

Locking Handle Viking XL
Låsvred Viking XL

Prod.no: 20490010
2003-10-02

Serial no 800987 Version 2 Release .....



Details	Detail no.	Unit.
Locking handle M10 grey	930000493	1
Locking handle M10x85 grey	930000494	1

Liko

5.199.1

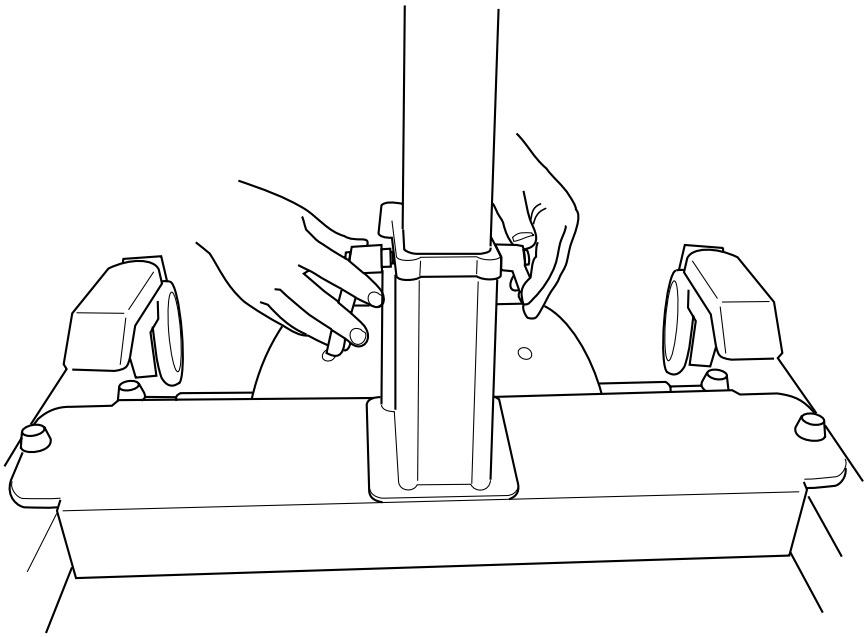
Assembly Instruction
Monteringsanvisning

Locking Handle Viking XL
Låsvred Viking XL

Prod.no: 20490010

Doc. no: 3SE630244-01
2006-03-13

Tools required



Place locking handle in lower hole and tighten.

Liko

5.248

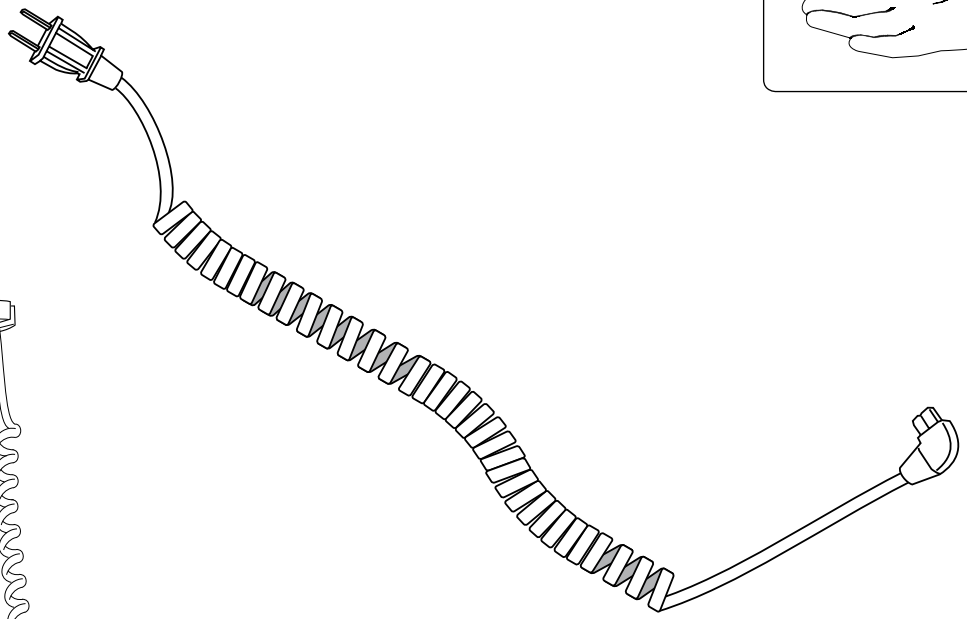
Assembly Instruction
Monteringsanvisning

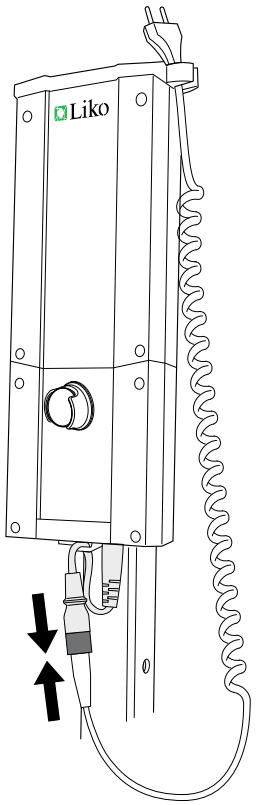
Cable for Charging, AU/NZ
Laddningskabel AU/NZ

Prod.no: 20090050

Doc. no: 3SE630243-01
2006-03-21

Tools required



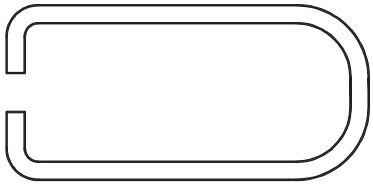


Details	Detail no.	Unit.
Cable for charging, AU/NZ	9500000AU	1

Safety Latch Universal
Urkrokningsskydd Universal

Prod.no: 31590011
2006-01-04

Serial no ..800987..... Version ..... Release .....



Details	Detail no.	Unit.
Safety latch	901335192	2

Liko

5.264.1

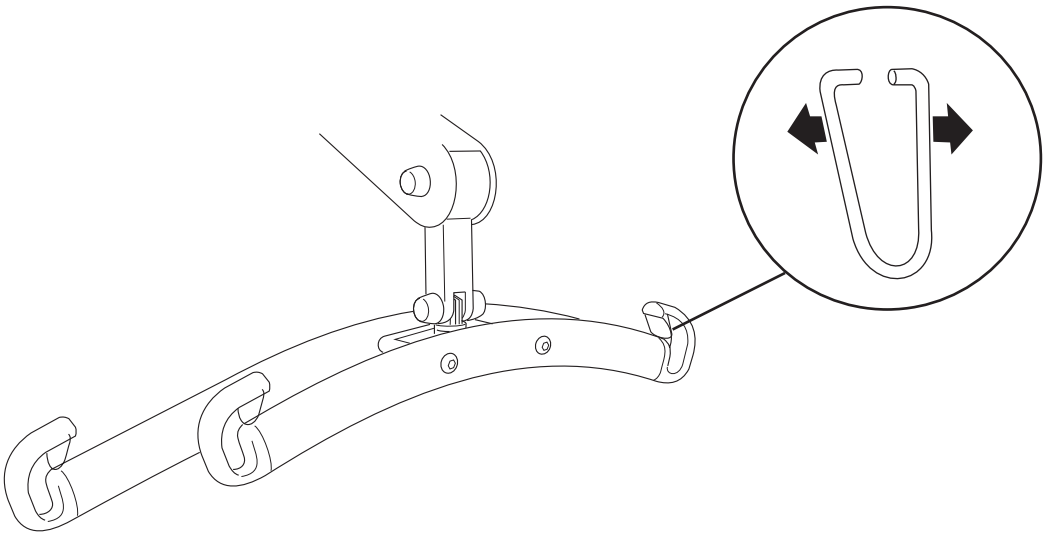
Assembly Instruction
Monteringsanvisning

Safety Latch Universal
Urkrokningsskydd Universal

Prod.no: 31590011

Doc. no: TI 31590011
2003-10-02

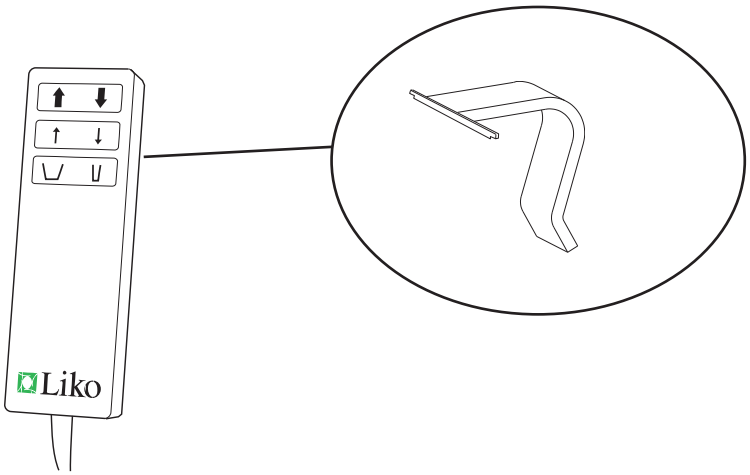
Tools required



Hook for Handcontrol 2,4,6 buttons
Krok för handkontroll 2,4,6 knappar

Prod.no: 20090058
2003-10-02

Serial no ..... Version ..... Release .....



Details	Detail no.	Unit.
Hook handc	20090058	1

Liko

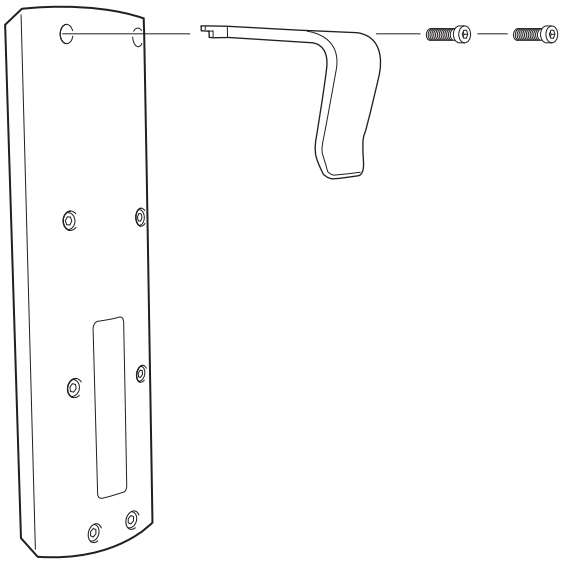
5.292.1

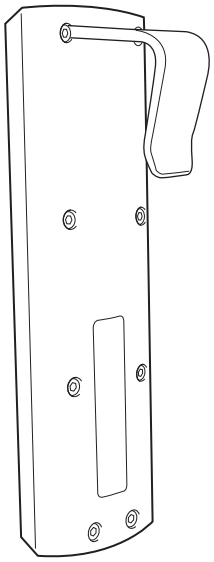
Assembly Instruction
Monteringsanvisning

Hook for handcontrol, 2, 4, 6 button
Krok för handkontroll 2, 4, 6 knappar

Prod.no: 20090058
Doc. nr: 3SE630210-02
2005-08-22

Tools required





Simple troubleshooting

The lift does not work up/down. Width adjustment does not work in/out.	1. Check that the emergency stop button is not pushed in. 2. Check that the cables are connected correctly. 3. Check that the charging cable is not connected to the wall socket. 4. Check that the battery is charged. 5. Check that the battery contact plate is not defective or broken off. 6. *If the lift still does not work satisfactorily, contact Liko.*
Battery charging does not work.	1. Check that the emergency stop button is not pushed in. 2. Check that the battery contact plate is not defective or broken off. 3. *If the lift still does not work satisfactorily, contact Liko.*
The lift stops in the elevated position.	1. Check that the emergency stop button is not pushed in. 2. Use the mechanical emergency-lowering device (marked) to lower the patient. 3. Check that the battery is charged. 4. *If the lift still does not work satisfactorily, contact Liko.*
If you hear unusual sounds.	*Contact Liko.*

Enkel felsökning

Lyften fungerar inte upp/ner. Benbreddning fungerar inte (in/ut).

1. Kontrollera att nödstoppen inte är intryckt.
2. Kontrollera att kablarna till kontrollboxen är rätt anslutna.
3. Kontrollera att laddkabeln inte är ansluten i vägguttag.
4. Kontrollera batterispänningen.
5. Kontrollera att kontaktblecken till batteri inte är defekta eller avbrutna.
6. *Om lyften fortfarande inte fungerar tillfredsställande kontakta Liko.*

Laddaren fungerar inte.

1. Kontrollera att nödstoppen inte är intryckt.
2. Kontrollera att kontaktblecken till batteri inte är defekta eller avbrutna.
3. *Om lyften fortfarande inte fungerar tillfredsställande kontakta Liko.*

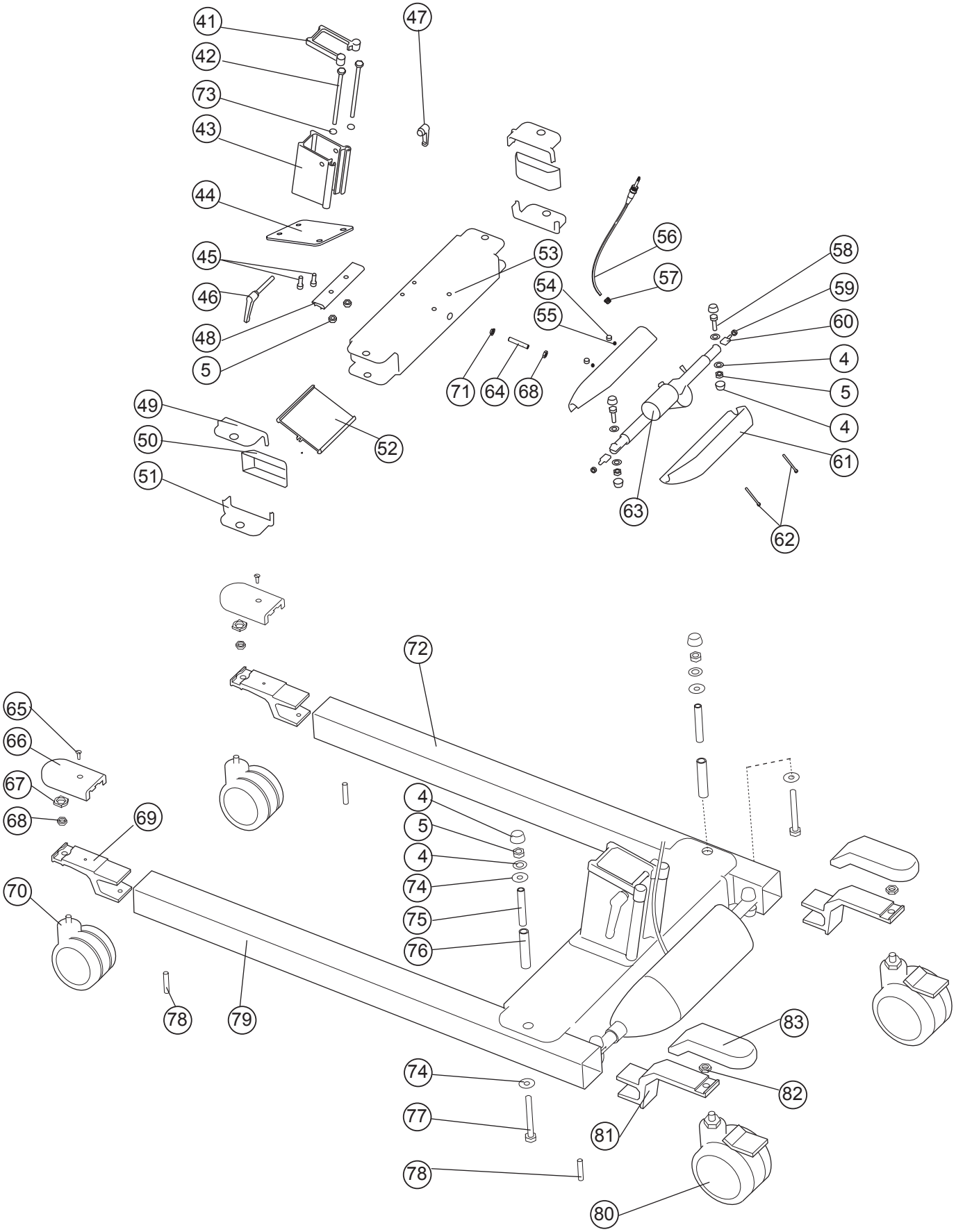
Lyften stannar i högt läge.

1. Kontrollera att nödstoppen inte är intryckt.
2. Använd markerad mekanisk nödsänkningsanordning för att sänka brukaren till fast underlag.
3. Kontrollera batterispänningen.
4. *Om problemet kvarstår, kontakta Liko.*

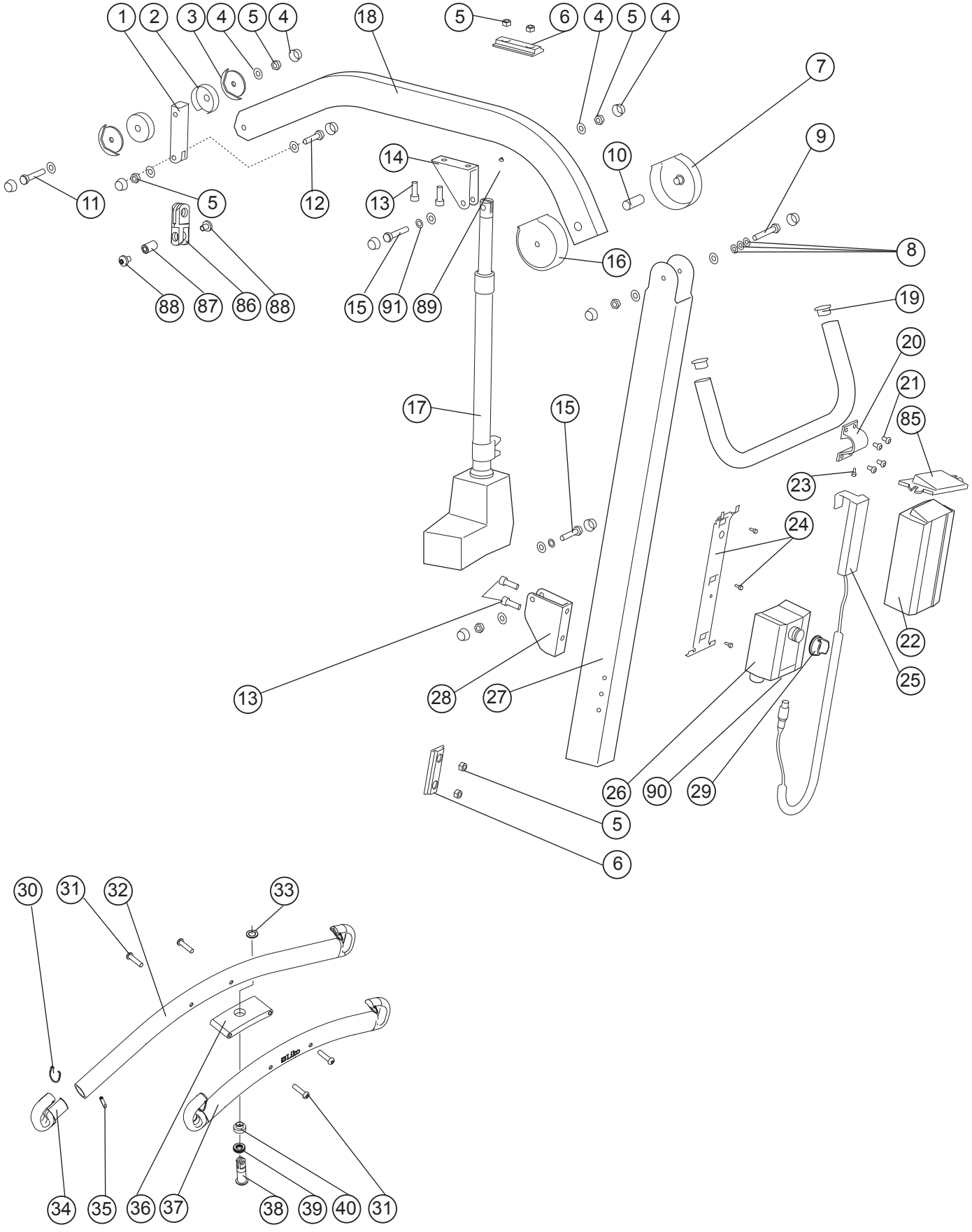
Om eventuella missljud hörs.

Kontakta Liko.

Base Viking XL
Underrede Viking XL



Mast Viking XL
Pelare Viking XL



Components Viking XL
Komponenter Viking XL

Pos.no Pos.nr	Article no Artikelnr.	Benämning	Name	Quantity Antal/st
1	901002607	Länk Viking	Link Viking	1
2	901012619	Ledarmskåpa I Viking	Cap I Viking	2
3	901012618	Ledarmskåpa Y Viking	Cap Y Viking	2
4	900000043	Täckhatt M10 grå U102	Cover hat M10 grey U102	16
5	930000010	Låsmutter M10 Nyloc	Locking nut M10	6
6	901002610	Mothållsprofil	Support Profile	2
7	901012617	Pelarledhalva Viking	Plastic cover mast Viking	2
8	930000128	Distansring PS 10/16x1 DI	Spacer ring PS 10/16x1 DI	3
9	930000536	Skruv M6S M10x80 GL=11mm	Screw M6S M10x80 GL=11mm	1
10	901328281	Armhylsa Viking XL/L/M	Arm casing Viking XL/L/M	1
11	930000535	Skruv M6S M10x65 GL=11mm	Screw M6S M10x65 GL=11mm	1
12	931032832	Skruv M6S M10x50 GL=12mm	Screw M6S M10x50 GL=12mm	1
13	930000378	Skruv MC6S M10x30	Screw MC6S M10x30	4
14	901002609	Motorfäste M Viking	Motor attachment M Viking	1
15	930000053	Skruv M6S M10x56 Uno	Screw M6S M10x56 Uno	2
17	940000010	Ställdon LA34 Viking XL/L	Actuator LA34 Viking XL/L	1
18	901026052	Arm Viking XL/L, exkl hylsa	Arm Viking XL/L, excl.casing	1
19	900000417	Ändplugg Light grå	End cover Light grey	2
20	901002606	Handtagsfäste Viking	Handle bracket	1
21	930000376	Skruv K6S M8x12	Screw K6S M8x12	4
22	950000044	Batteribox	Batterybox	1
23	900000421	Pop nit 6,4x9,5 Alu	Rivet 6,4x9,5 alu	1
24	900000001	Monteringsbeslag MBJ2CB	Attachment control box	1
25	950000048	Handkontroll EE	Handcontrol EE	1
26	950000105	Kontrollbox Viking XL/L	Control box Viking XL/L	1
27	901026043	Pelare Viking XL	Mast Viking XL	1
28	901002631	Motorfäste P Viking	Motor attachment P Viking	1
29	901535091	Nödstoppskrage m tejp	Emergency guard	1
30	901335192	Urkrokningsskydd 2	Safety latch	4
31	930000252	Skruv K6S M8x35	Screw K6S M8x35	4
32	901335301	Rör 670 Twin	Body 670 Twin	1
33	901003526	Stoppring	Stop ring	1
34	901335084	Lyftbygelkrok	Hook for slingbar	4
35	930000457	Skruv SK6SS M6x30	Screw SK6SS M6x30	4
36	901435321	Mittprofil Twin	Middle profile	1
37	901335311	Rör 450 Twin	Body 450 Twin	1
38	901535011	Bygelbult dubbelbygel	Slingbar bolt	1
39	920000178	Axialkullager 51104 Lb	Axis ball bearing 51104 Lb	1
40	901495317	Lagerskydd Lb	Cover bearing	1
41	901012620	Fotkrage Viking	Foot cage Viking	1
42	930000491	Skruv M6S M10x300	Screw M6S M10x300	2
43	901026014	Fot Viking XL	Foot Viking XL	1
44	901012612	Fotplåt Viking XL/L	Foot plate Viking XL/L	1
45	930000099	Skruv MC6S M8x30 låg	Screw MC6S M8x30 låg	2
46	930000494	Spak M10x85 Grå	Lever M10x85 grey	1

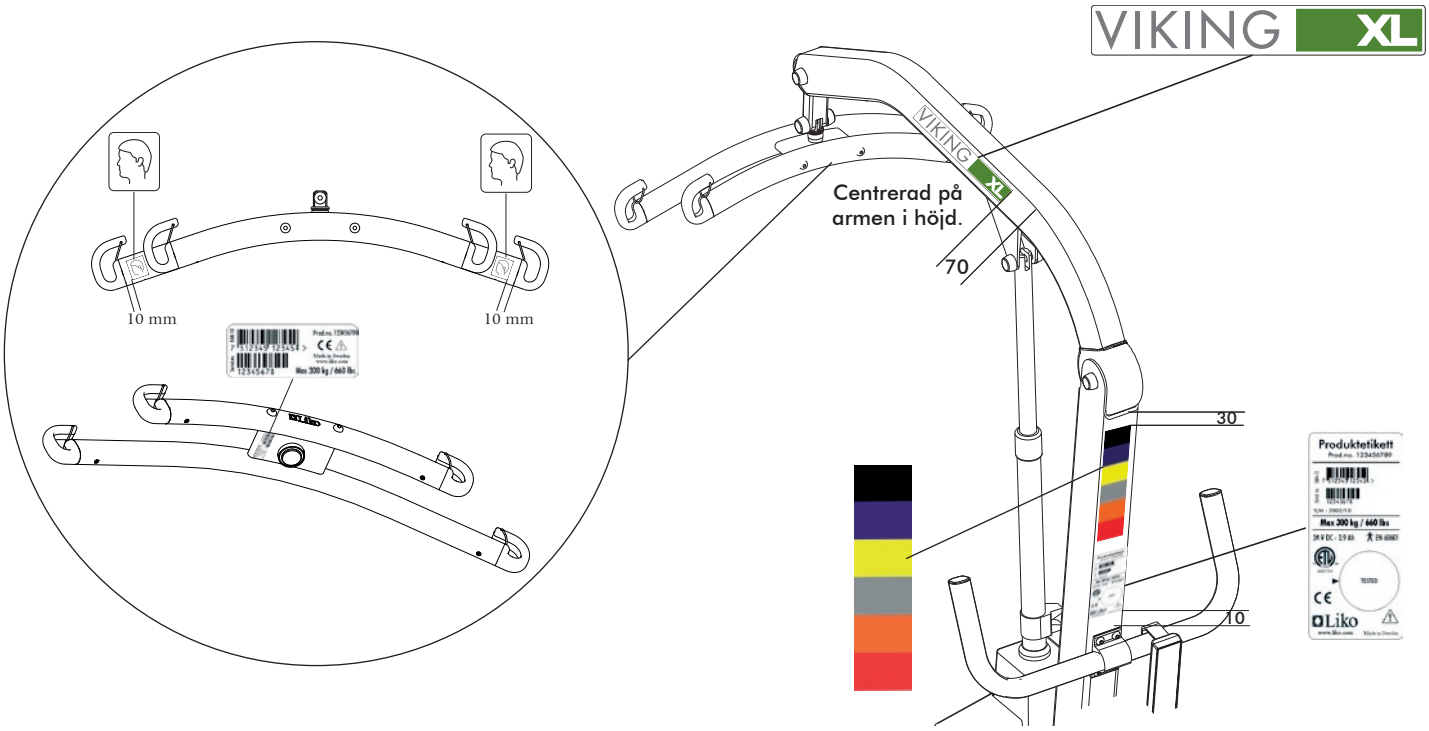
Components Viking XL
Komponenter Viking XL

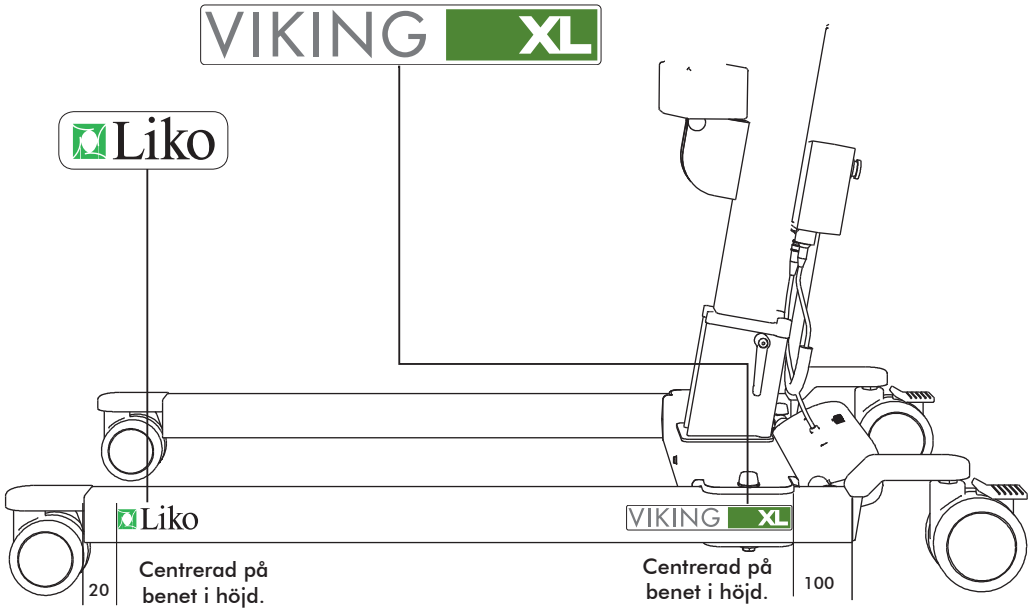
Pos.no Pos.nr	Article no Artikelnr.	Benämning	Name	Quantity Antal/st
47	930000493	Spak M10 Grå	Lever M10 grey	1
48	901992512	Förstärkningsprofil Light	Reinforcement profile Light	1
49	901126221	Benkåpa 1 Viking	Leg cover 1 Viking	2
50	901012621	Benkåpa 3 Viking	Leg cover 3 Viking	2
51	901126222	Benkåpa 2 Viking	Leg cover 2 Viking	2
52	901126342	Diagonalprofil XL	Profile XL	1
53	901026022	Mellanbit Viking XL	Middle beam	1
54	900001357	Täckpropp UKB 3,5 10 9 G	Cover plug UKB 3,5 10 9 G	2
55	930000084	Låsmutter M4 Nyloc	Locking nut M4 Nyloc	2
56	951328311	Motorkabel u-rede Viking	Motor cable base Viking	1
57	900000088	Kabelgenomföring G7	Cable reliver G7	1
58	901890122	Skruv M6S M10x40 GL=15mm	Skruv M6S M10x40 GL=15mm	2
59	930000091	Låsmutter M8 Nyloc fzb	Locking nut M8	2
60	901012626	Länkfäste Viking	Link attachment Viking	2
61	901012615	Motorkapsling Viking	Viking Base Motor Cover	2
62	930000356	Skruv MC6S M4x55	Screw MC6S M4x55	2
63	940000011	Ställdon LA30 Viking XL	Actuator LA30 Viking XL	1
64	901126353	Axel 10x55 Viking	Axis 10x55 Viking	1
65	930000424	Nylonskruv M5x16 natur	Nylon screw M5x16 Nature	2
66	900000419	Hjulkåpa grå Light	Front fork cover grey lig	2
67	901825082	Lås hjulgaffel Light	Front fork locking light	2
68	930000268	Mutter M6LM M10 ISO	Nut M6LM M10 ISO	3
69	901012611	Framgaffel Viking	Front fork Viking	2
70	910000007	Framhjul TwinTech 100	Front wheel TwinTech 100	2
71	920000082	Glidl. m krage 10x12x6	Nylon bearing 10x12x6	1
72	901026031	Ben Hö Viking XL	Leg, right Viking XL	1
73	930000314	Bricka BRB 10x18x2 A2	Washer BRB 10x18x2 A2	2
74	930000379	Bricka BN732 10.5/30x2	Washer BN732 10.5/30x2	4
75	901262321	Benhylsa I Viking	Leg casing I Viking	2
76	901262322	Benhylsa Y Viking XL/L	Leg casing Y Viking	2
77	930000382	Skruv M6S M10x100	Screw M6S M10x100	2
78	930000060	Stoppskruv P6SS M8x45	Stop screw P6SS M8x45	4
79	901026032	Ben Vä Viking XL	Leg, left Viking XL	1
80	910000001	Bakhjul TwinTech 125	Rear wheel Twin Tech 125	2
81	901011281	Bakgaffel G7	Rear fork	2
82	930000215	Mutter M12 låg Din 439-B	Nut M12 low Din 439-B	2
83	901931165	Bakhjulskåpa grå	Rear wheel cover, grey	2
84	901002632	Handtag Viking XL/L/M	Handle Viking XL/L/M	1
85	900000324	Lock till batteripack	Holder for charging cable	1
86	901435261	Lyftbygelbult Övre	Slingbar bolt upper	1
87	901435271	Gänghylsa M6 10x16,5	Threaded casing M6 10x16	1
88	930000483	Skruv MRT M6x8 Ezloc A2	Screw MRT M6x8 Ezloc A2	2
89	900001315	Ändavsl. IKPT 12 10.5 grå	Top cover IKPT 12 10.5 grey	1
90	900000292	Ändavsl. IKPT 12 15 G	Top cover IKPT 12 15 G	1
91	930000128	Distansring PS 10/16x1 DI	Spacer ring PS 10/16x1 DI	2

Detta dokument skall alltid skrivas ut i färg!

Dekalanvisning Viking XL

4 x	VIKING XL	267x39 mm art. nr 900001673	1 x		50x110 mm
1 x		210x50 mm art. nr 900000506	1 x		52x21 mm
2 x	Liko	84x29 mm art. nr 900001677	2 x		22x25 mm art. nr. 900000993





Periodic Inspection

Viking XL

Lift type:	
Serial No:	
Version:	
Prod. Year:	

Customer Reference:

Contract No:	
Name:	
Address:	
(Zip Code)	

Comments: **1**. Attention **2**. Correct Immediately **3**. Do not Use!

Inspect the following:	**Item**	**System**
Base		
☐ 1(a)Check for visible damage to the lift base surface finish	.....	
☐ 2 Check castor wheels, forks and fork covers	.....	
☐ 3 Check the castor brakes	.....	
☐ 4 Inspect the base covers	.....	
☐ 5 Inspect base opening and closing linkage	.....	
☐ 6 Check base frame castor play & levelling	.....	
Mast		
☐ 1(b) Check for visible damage to the lift mast surface finish	.....	
☐ 7 Inspect Locking handles	.....	
☐ 8 Inspect lift arm hardware & covers	.....	
☐ 9 Inspect Flexlink arm to mast hardware & covers	.....	
☐ 10 Inspect Flexlink arm to slingbar hardware & covers	.....	
☐ 11 Inspect the slingbar bearings and safety latches	.....	
☐ 12 Inspect the mast actuator w/mechanical lowering device	.....	
☐ 13 Check battery & electrical cable installations	.....	
☐ 14 Check all functions on the handcontrol	.....	
☐ 15 Check the Emergency Stop function	.....	
☐ 16 Check Electrical emergency lowering device functions	.....	
☐ 17 Check charger function	.....	
☐ 18 Product decal	.....	
Load Testing		
☐ 19 Mast Max. Load Test	.....	
☐ 20 Base Max. Load Test	.....	
☐ 21 Mechanical Emergency Lowering Load test	.....	
Option		
☐ 22 Inspect Armrest	.....	
Documentation		
☐ 23 Documentation	.....	

In accordance with ISO 10535:1998 Annex A- Periodic inspection

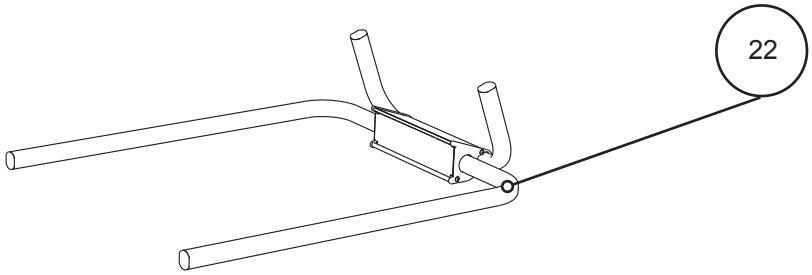
Date:_____ Load test weight: _____

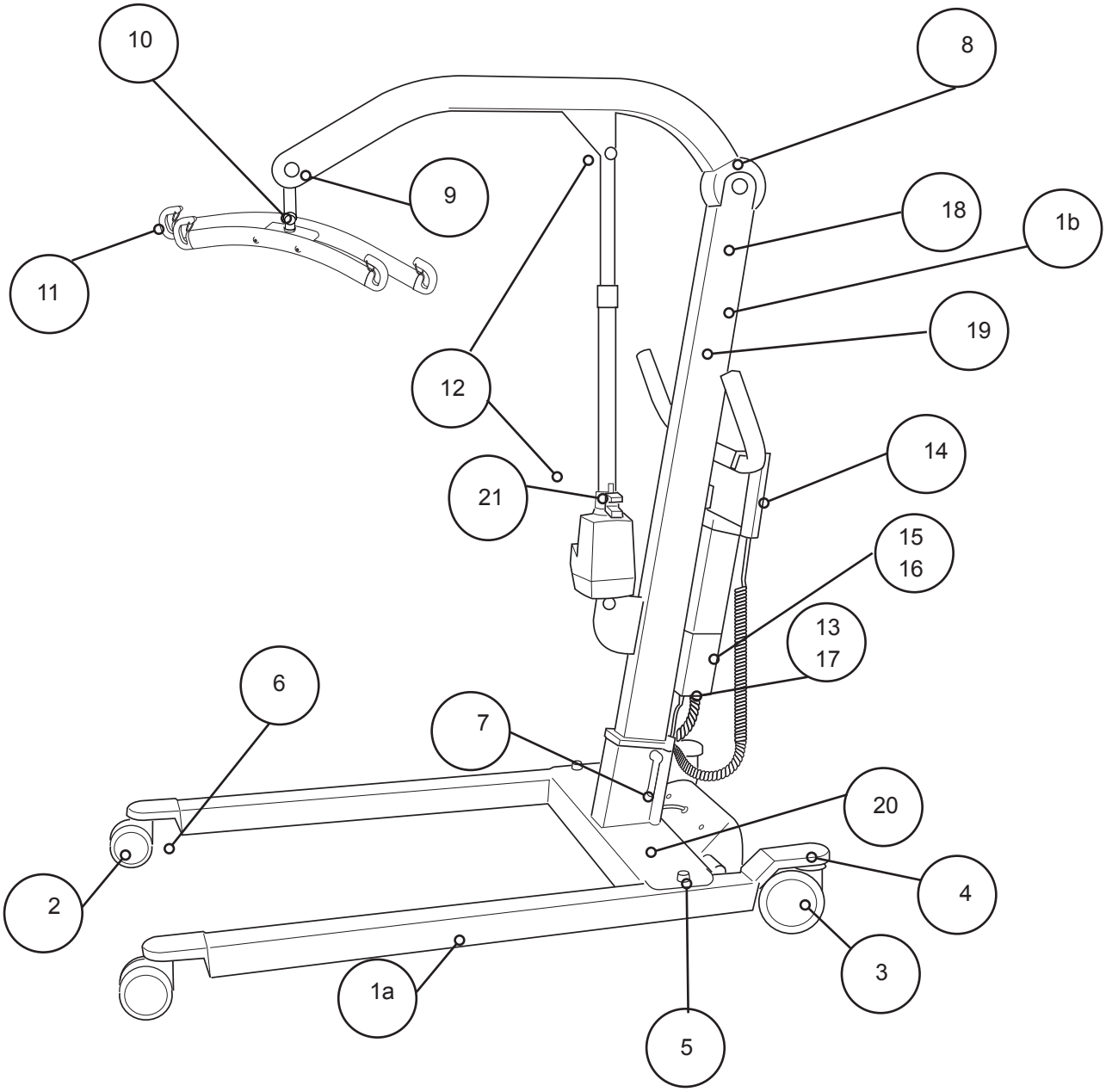
Serviced by:_____

Periodic Inspection

Declaration for protocol Viking XL

Description





Periodic Inspection

Declaration for protocol Viking XL

1 Check mast and base for visible damage to the lift surfaces, finish, etc

- Check for scratches, dents, deformities or unusual surface wear.

2 Check castor wheels, forks and fork covers

- Roll the lift, unloaded, along the floor, checking to ensure that all castors roll and turn freely.
- Verify that the castor fasteners are tight. There should not be any play between the fork and the castor nut.
- Remove the front fork cover and inspect safety casing and bolt cannel for cracks or fractures.

3 Check the castor brakes

- Lock the brakes. Make sure the wheels do not turn and the castor housing does not swivel when the lift is pushed.

4 Inspect the base covers

- Verify that the protective plastic covers are secure.

5 Inspect base opening and closing linkage

Electrical Base:

- Inspect the plastic protective cover shell for cracks, deformation or gaps.
- Open and close the base to maximum and minimum dimensions.
- Listen for particular noises and vibrations.

6 Check base frame castor play and levelling

- Manually open and close legs at the front castors to measure wheel play. Base width wheel play should not exceed 35mm / 1,38 Inch total.

7 Inspect Locking handles

- Loosen & retighten locking handles. Verify that threads are not damaged or binding.

8 Inspect the lift arm hardware and covers

- With the lift in it's lowest position, manually raise the lift arm/boom. Verify that the shaft lowers and raises freely. If the arm is binding, the mounting screw is too tight.
- Inspect the plastic protective cover shells for cracks, deformation or gaps.

9 Inspect the Flexlink arm to mast hardware and covers

- With the slingbar hanging in it's lowest position, manually raise the slingbar and flexlink arm.
- Verify that the flexlink arm lowers and raises freely. If the flexlink is binding the screw is too tight.
- Inspect the plastic protective cover shells for cracks, deformation or gaps.

10 Inspect the Flexlink arm to slingbar hardware and covers

- With the slingbar hanging in it's lowest position, manually pivot the slingbar side-to-side. Verify that the flexlink arm lowers and raises freely. If the flexlink is binding, the mounting screw is too tight.
- Verify that hardware covering plastic caps are secure.

11 Inspect the slingbar w/safety latches

- Visually inspect that the universal slingbar is free from any scratches, sharp edges or deformities.
- Verify that the stop ring is present and positioned in the center bolt groove.
- Check that the unit rotates freely on its bearings. Wipe clean any dirt, dust or residue.
- Make sure both safety latches are mounted and fall back against the body of the slingbar.

Periodic Inspection

Declaration for protocol Checklist Viking XL

12 Inspect the mast actuator w/mechanical lowering device

- Verify that the upper and lower actuator fasteners to the mast are tight.
- Visual inspection of tubes, back fixture and piston rod eye.
- Check of installation dimension.
- Check of abnormal noise level.
- Check of electric end stop (by using test box).

13 Check battery & electrical cable installations

- Verify battery charge (recharge battery or test w/Prod. No 2101100).
- Inspect that all cords are in the proper receptacles of the control box, handcontrol (large DIN receptacle), mast actuator (middle receptacle, port #1), base motor (end receptacle, port #2), extension cord (in front two pin connector) connected to the charging cable.
- Verify that all cables are properly inserted. Reinsert if uncertain.

14 Check all functions on the handcontrol

- With the emergency stop out, verify that all functions on the handcontrol are working.

15 Check the Emergency Stop function

- Press in the emergency stop button. With the emergency stop pressed in, verify the lift does not operate with the handcontrol buttons.
- Next turn the red emergency button in the direction of the arrows (clockwise). Verify the button releases from the locked position into the raised, open position.

16 Check electrical emergency lowering device functions

- With the emergency stop out, verify that the electrical emergency lowering device functions.

17 Check charger function

- With the emergency stop out, insert the charger cable into a power outlet (110-240V). The diode lights on the control unit should light up.

18 Product decal

- Verify that the mast decal with model type and serial number is placed on the mast..

19 Mast Max. Load Test

- Run the lift with maximum load (300kg / 660lbs), all the way up and down.
- Listen for peculiar noises and vibrations.

20 Base Max. Load Test

- Press right / left side to widen the base with maximum load (300kg / 660lbs).
- Listen for peculiar noises and vibrations.

21 Mechanical Emergency Lowering Load test

- Raise maximum load until the mast is parallel to the ground.
-Lift red emergency handle upwards and hold.
- After overcoming the internal mechanical brake, verify that the load lowers to the ground.

Periodic Inspection

Declaration for protocol Checklist Viking XL

22 Inspect Armrest

- Check for unusual scratches, dents or deformations.
- Verify that both arms rotate freely and hang vertically when not in use.
- Rotate arms to raised position.

23 Documentation

- Instructions / Instruction guide / Service Manual

Periodisk inspektion

Viking XL

Lyfttyp:	
s/n:	
Version:	
Tillv.år:	

Kundreferenser

Avtalnr:	
Namn:	
Adress:	
Postnr:	

Anmärkning: 1. Påpekande **2**. Åtgärdas omg. **3.** Får ej användas

Kontrollera följande:	**Anmärkning:**
Underrede	
☐ 1(a) Inspektera underrede	.....
☐ 2 Kontrollera hjul	.....
☐ 3 Kontrollera broms	.....
☐ 4 Kontrollera benkåpor	.....
☐ 5 Kontrollera leder och skruvförband	.....
☐ 6 Kontrollera glapp underrede/golv/hjul	.....
Pelare	
☐ 1(b) Inspektera pelare	.....
☐ 7 Kontrollera låsvred	.....
☐ 8 Kontrollera lyftarm, skruvförband & plastkåpor	.....
☐ 9 Kontrollera Flexlink infästning lyftarm	.....
☐ 10 Kontrollera Flexlink infästning länk till bygel	.....
☐ 11 Kontrollera lyftbygel & urkrokningsskyddens funktion	.....
☐ 12 Kontrollera infästningar av ställdon	.....
☐ 13 Kontrollera att batteri & kablar är rätt anslutna	.....
☐ 14 Kontrollera handkontrollens alla funktioner	.....
☐ 15 Kontrollera nödstopp	.....
☐ 16 Kontrollera elektrisk nödsänkning	.....
☐ 17 Kontrollera laddningsfunktion	.....
☐ 18 Produktdekal	.....
Provbelastning	
☐ 19 Pelare maxlast	.....
☐ 20 Underrede maxlast	.....
☐ 21 Kontrollera mekanisk nödsänkning	.....
Tillbehör	
☐ 22 Kontrollera armhållare	.....
Dokumentation	
☐ 23 Instruktioner/ Bruksanvisning	.....

I enlighet med ISO 10535:1995 Annex A- Periodic inspection

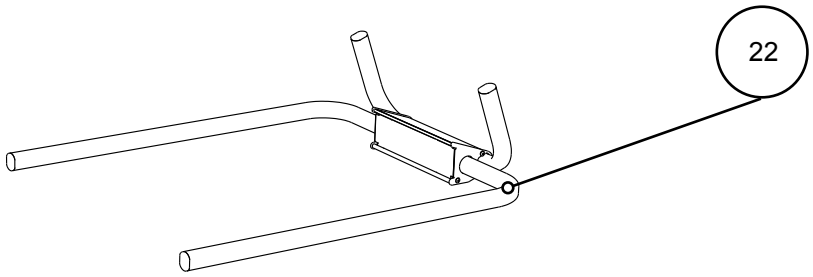
Datum:_____ Provbelastad med:_____

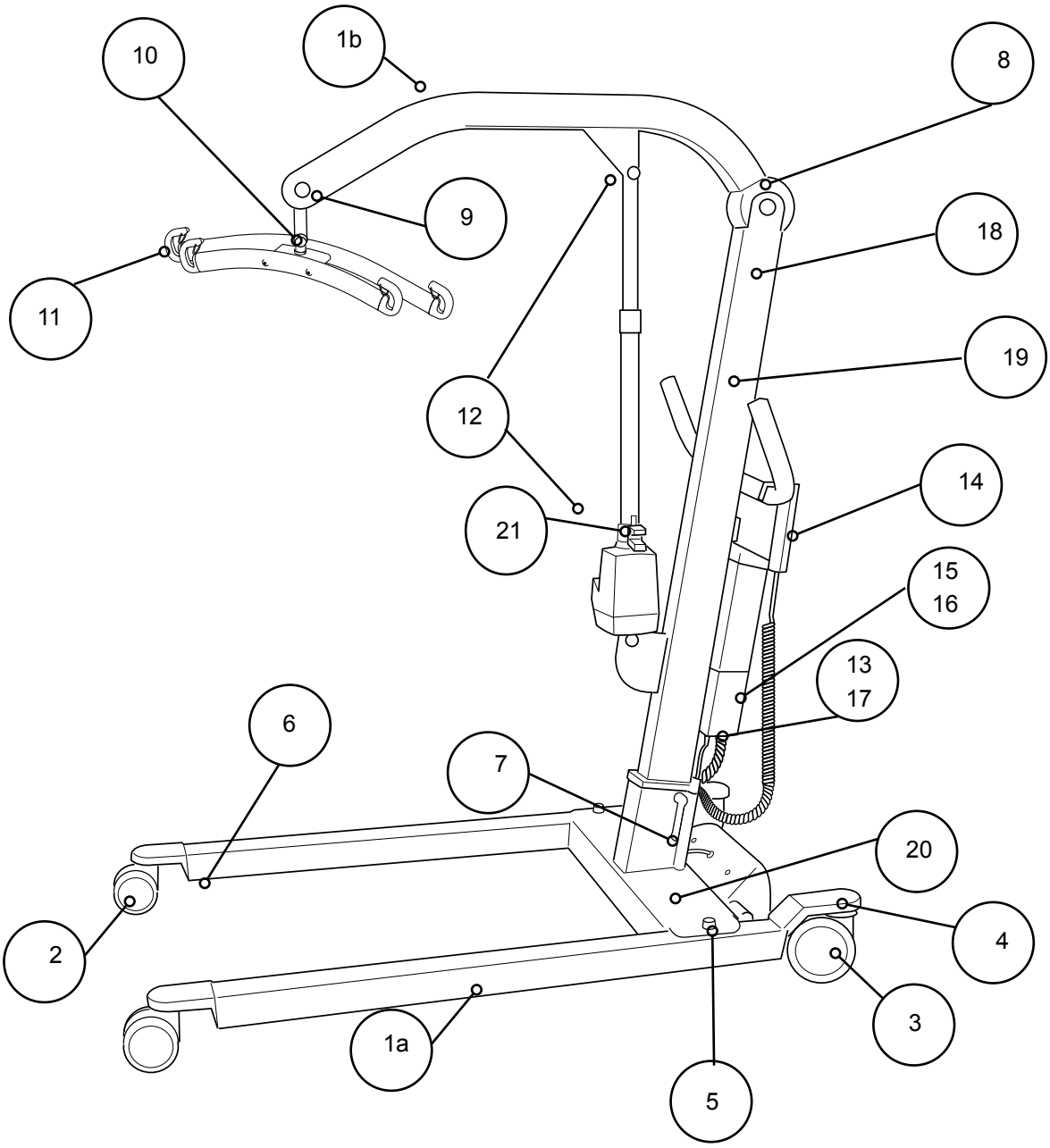
Inspektion utförd av:_____

Periodisk inspektion

Viking XL

Positioner





Periodisk inspektion

Viking XL

1 (a) Inspektera underrede

- Kontrollera att underrede inte har några synliga sprickor, deformationer eller dylikt.

2 Kontrollera hjul

- Rulla lyften obelastad på golvet, kontrollera då att hjulen rullar och svänger obehindrat.
- Kontrollera hjul och skruvförband.

3 Kontrollera broms

- Lås broms. Kontrollera att hjul är låst i alla rikningar med och utan last.

4 Kontrollera benkåpor

- Kontrollera benkåpor 3 delar samt fram och bakgaffelkåpor.

5 Kontrollera leder & skruvförband

Elektriskt underrede:

- Kontrollera kulleder och plastskydd samt kupollåsmuttrar.
- Lyssna efter missljud och vibrationer.

6 Kontrollera glapp ben/mellanbit

- Dra i benen manuellt vid framhjulen, utåt/inåt. Glappet ben/mellanbit får inte översitiga 35mm.

1 (b) Inspektera Pelare

- Kontrollera att inte pelaren har några synliga sprickor och deformationer eller dylikt.

7 Kontrollera låsvred

- Kontrollera låsvred som fäster lyftbygeln och pelaren.

8 Kontrollera lyftarm, skruvförband & plastkåpor

- Kontrollera att lyftarmens pelarkåpor samt flexlinks plastkåpor inte har sprickor och deformationer.

9 Kontrollera Flexlink infästning lyftarm

- Med lyftarmen i mittenläge. Lyft upp lyftbygeln släpp sedan bygel då skall bygeln falla till nedersta läget om inte så är skruvförbandet för hårt åtdraget.

10 Kontrollera Flexlink infästning till bygel

- Med bygeln hängande i nedersta läge lyft up flexlink kontrollera så lyftbygelbult rör sig om inte så är skruvförbandet för hårt åtdaget.

11 Kontrollera lyftbygel & urkrokningsskyddens funktion

- Inspektera lyftbygeln och kontrollera att inga yttre skador har uppkommit.
- Kontrollera urkrokningsskyddets funktion.

Periodisk inspektion

Viking XL

12 Kontrollera infästningar av ställdon

- Kontrollera skruvförband för nedre och övre infästning av ställdon.
- Visuell kontroll av kolvstång inner och ytterrör, och kolvstångsfäste.
- Kontroll av gränslägesbrytare (med test box).
- Lyssna efter missljud och vibrationer.

13 Kontrollera att batteri & kablar är rätt anslutna

- Kontrollera väggladdare (ladda batteri eller testa med artikel.nr 2101100).
- Kontrollera att kablarna till kontrollboxen är rätt anslutna. Handkontroll (stor DIN kontakt), ställdon pelare (port #1), underredesmotor (port #2), förlängningskabel.

14 Kontrollera handkontrollen

- Kontrollera att handkontrollens alla funktioner fungerar.

15 Kontrollera nödstopp

- Tryck in nödstoppen. Med nödstoppen intryckt, kontrollera att lyften inte fungerar när knapparna på handkontrollen aktiveras.
- Vrid nödstoppsknappen i pilens riktning (motsols) kontrollera att knappen har släppt till öppet läge.

16 Kontrollera elektrisk nödsänkningen

- Kontrollera att den elektriska nödsänkningen fungerar.

17 Kontrollera laddningsfunktion

- Kontrollera att laddningen fungerar genom att ansluta laddningskabeln till nätuttag (230-240V), då skall lysdioderna på kontrollboxen lysa.

18 Produktdekal

- Kontrollera s/n.

19 Pelare maxlast

- Kör lyften med maximal last 300 kg hela vägen upp och ner.
- Lyssna efter missljud och vibrationer.

20 Underrede maxlast

- Kör underredet ut och in med maximal last 300 kg.
- Lyssna efter missljud och vibrationer.

21 Kontrollera mekanisk nödsänkning

- Kontrollera att nödsänkningen fungerar med maximal last 300 kg
- Drag det röda nödsänkningsreglaget rakt uppåt. Lyftbygeln måste vara belastad. Sänkning sker med viss fördröjning.

22 Kontrollera armhållare

- Kontrollera att inte armhållaren har några synliga och deformationer eller dylikt.
- Kontrollera skydds kåpor.
- Fäll fram och belasta armstöden lätt max 40 kg

23 Dokumentation

- Instruktioner/ Bruksanvisning.